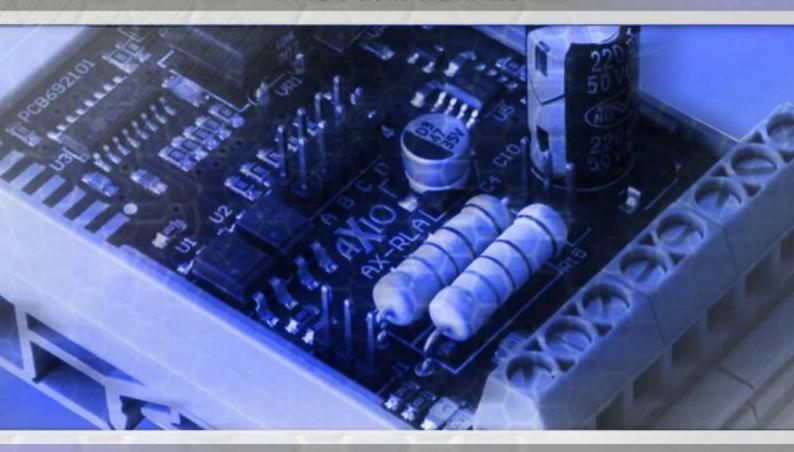
AXIO

BMS PERIPHERALS



SHORTFORM CATALOGUE 2014



COMPANY INFORMATION

About Annicom

Annicom started its UK business more than 30 years ago as an OEM electronic designer, manufacturer and panel builder. Since then it has grown into one of the most well respected British creators and developers of Industrial Controls and a leading OEM manufacturer of prestigious electronic brands worldwide. Its range of products includes the renowned Duct Heater Power Controllers and Relative Humidity Transmitters.

Recent developments include an innovative, magnet-free, sound system for MRI scanners as well as bespoke designs for key clients as far afield as the Middle East, South Africa and Outer Mongolia! Our products can be seen in such locations as top hotels in Dubai; state of the art offices in London and even the Sultan's Palace in Abu Dhabi.

Playing a key role in Annicom's extensive growth and product mix is AXIO -Annicom Cross Platform IO Products - Annicom's own brand of BMS Peripherals launched in 2002.

Since then the range has gone from strength to strength with products including Relative Humidity Transmitters, Temperature Sensors, Advanced Relay Modules and Multiplexers. In total the AXIO range features over 900 high quality products including a selection of cost effective models appealing to a wide range of customers across a number of industries.

In addition to AXIO, Annicom is also a trusted distributor of world famous brands such as GE.

Key Features of Annicom

- * High Quality
- * Innovation
- * Bespoke Tailoring (In-house design of hardware and software)
- * In-house Manufacturing
- * Made in Britain

Key Features of the AXIO brand

- * Three Year Warranty
- * Vast Product Range
- * Global Sales
- * Competitively Priced
- * Compatible with most BMS Systems

For Our Customers

- * Quality Products without Compromise
- * Outstanding Technical Support
- * Individual Customer Care
- * Product & Application Training

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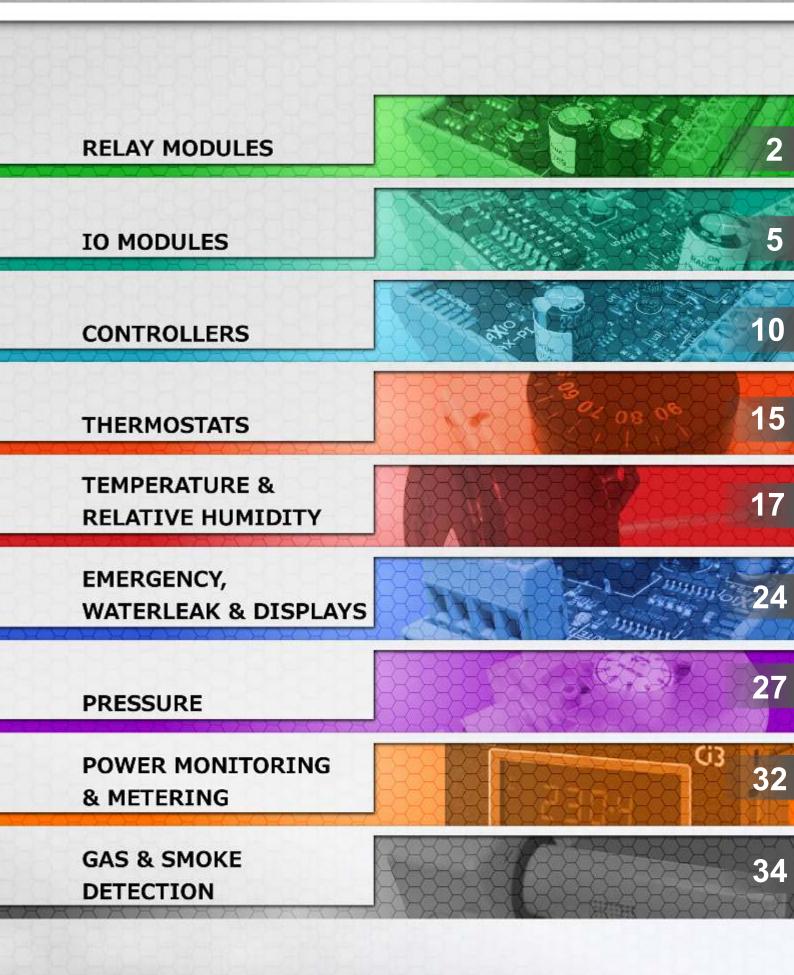
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CONTENTS





RELAY MODULES

Relay Modules

Relay Modules - Single



A range of single pole changeover relays designed for use in control applications. The 12Vdc version has a sensitive coil that can be driven directly by most BMS Controllers.

Order Codes:	Note: Price guide only - prices subject to fluctuations	List Price
AX-RM1-12DC	12Vdc sensitive coil 10A@250Vac (res)	£3.25
AX-RM1-24AC	24Vac coil 12A@250Vac (res)	£3.70
AX-RM1-24DC	24Vdc coil 12A@250Vac (res)	£3.65
AX-RM1-230AC	230Vac coil 12A@250Vac (res)	£5.00

- Can convert a BMS output to digital VFC
- Large range of coil options Contact rating 12A @ 230Vac resistive (10A on 12Vdc)
- . Complete with DIN rail base

Specifications:

Output Contacts:	1 x SPCO
Ambient Range:	-25 to +85°C

Relay Modules - Single Relay - 2, 3 or 4-pole



AX-RM1-2/3/4

Two, 3 and 4-pole changeover relays designed for use in control applications.

Order Codes:	Note: Price guide only - prices subject to fluctuations	List Price
AX-RM1-2-24AC	2 x 8A@250Vac (res) 24Vac coil	£4.50
AX-RM1-3-24AC	3 x 10A@250Vac (res) 24Vac coil	£5.25
AX-RM1-4-24AC	4 x 6A@250Vac (res) 24Vac coil	£5.50
AX-RM1-2-230AC	2 x 8A@250Vac (res) 230Vac coil	£6.00
AX-RM1-3-230AC	3 x 10A@250Vac (res) 230Vac coil	£7.00
AX-RM1-4-230AC	4 x 6A@250Vac (res) 230Vac coil	£7.50

Features:

- Can convert a BMS output to digital VFC
- 2, 3 and 4-pole variants
- . Range of voltage options 24Vac, 240Vac
- DC options available on request
- . Complete with DIN carriers

Specifications:

Output Contacts:	2, 3 or 4 Pole
Ambient Range:	0 to 50°C

Relay Module Single - Adjustable Threshold



AX-RM1AB

An adjustable Single Relay Module which accepts a 0-10Vdc signal and provides a relay output with adjustable switching threshold. The switch on and off points are independently variable. The unit comes complete with a buffered 0-10V output.

Order Codes:		List Price
	Adjustable switching point relay module c/w buffered 0-10V o/p	£15.50

Features:

- Can convert a BMS output to digital VFC Adjustable switching threshold On & Off
- Contact rating 12A @ 230Vac resistive DIN rail mount
- Specifications:

Power Supply:	24Vac/dc +/- 10%	
Output Contacts:	1 x SPCO	
Contact Rating:	12A @ 250Vac (res)	
Switching Point:	0.1 to 10Vdc on & off	
Input Signal:	0-10Vdc < 1mA	
Buffered Output:	0-10Vdc @ 5mA max	

Relay Modules - Single - Fixed Switchpoint



AX-RM1F

A Single Relay Module with a fixed switchpoint accepts a 0-10Vdc signal and provides a manual override of the output from a BMS controller. Requires very low drive current from analogue signal.

Order Codes:		List Price
AX-RM1F	Single Relay Module - Fixed switchpoint	£12.00

Features:

- Can convert a BMS output to digital VFC
- On/Off auto links
- DIN rail mount

Specifications:

Input Signal:	0-10Vdc <1mA
Output Contacts:	1 x SPCO
Contact Rating:	12A @ 250Vac (res)
Fixed Switchpoint:	5Vdc
Manual Override:	ON/OFF/AUTO



RELAY MODULES

Relay Modules

Relay Modules - Two Stage Relay Modules



AX-RM2T

Dual Relay Modules with link-selectable operating mode and adjustable timer. The unit can be used as a raise/lower or pump changeover module or for cascade or binary control of two heating or cooling stages. The module can also be configured as a single/dual stage timer delay on module.

Order Codes:		List Price
AX-RM2T	Dual relay module with timer 0 to 30 secs	£14.00
AX-RM2T2	Dual relay module with timer 0 to 240 secs	£15.00
AX-RM2S	Dual relay sequencing module with timer 0 to 30 secs	£18.00

Features:

- . Multiple operating modes
- . LED Indication of output status
- . DIN rail mount
- Manual override jumpers to aid commissioning

Specifications:

Power Supply:	24Vac/dc +/- 10%
Output Contacts:	2 x SPCO
Contact Rating:	12A @ 250Vac (res)
Input Signal:	0-10Vdc (1mA max)
Mode of Operation:	Raise/Lower. 2) High/Low. 3) Binary. Single Stage timer. 5) Two stage timer

Two Stage Solid State Relay Switching Modules



AX-RM2T-SSR

The AX-RM2T-SSR converts a 0-10Vdc input signal into a two stage Triac output pair. The modules can be configured with or without stage delays. Applications include noiseless switching control and situations with a high inrush current.

Order Codes:		List Price
AX-RM2T-SSR	Two stage Triac output module 0 to 30 secs	£29.00
AX-RM2T2-SSR	Two stage triac output module 0 to 240 secs	£32.00

Features:

- . Integrated timer function
- . 2 Triac output
- . Totally silent operation
- For high inrush currents
- LED Indication of output status

Specifications:

Power Supply:	24Vac/dc +/- 10%
Output:	2 x Triacs
Output Rating:	2.1 amps max per output @ 24 or 230Vac
Input Signal:	0-10Vdc (1mA max)
Consumption:	80mA typical @ 24Vdc
Mode of Operation:	Hi/Lo, Raise/Lower, Binary, Timer
Timer:	0 to 30 (-2 240 seconds per stage)
Manual Override:	ON/OFF/AUTO

Fan Speed Three Relay Modules



AX-FRM3

These units comprise a bank of three relays designed primarily for use between 3 digital or low current outputs from a thermostat and giving three relay outputs to the fans in a fan coil unit. There are 24 and 230Vac coil versions. The output contacts are interlocked.

Order Codes:		List Price
AX-FRM3-230	Fan speed - three relay module 230Vac - DIN	£17.00
AX-FRM3-24	Fan speed - three relay module 24Vac - DIN	£16.00
AX-FRM3-24E	Enclosure mounted	£20.00
AX-FRM3-230E	Enclosure mounted	£21.00

Features:

- 24 x 230Vac input (with common neutral)
- 3 x SPCO relay output
- . Different coil voltages available on request

Specifications:

Input Signal:	3 x 230Vac or 24Vac
Output Contacts:	3 x SPCO
Contact Rating:	12A @ 250Vac (res)
Ambient Range:	0 to 50°C

Fan Speed Three Relay and Transformer Module



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AX-FRM3-TX25/30

These units comprise a bank of three relays designed primarily for use between 3 digital or low current outputs from a thermostat and giving three relay outputs to the fan in a fan coil unit. The module also incorporates a 230 to 24Vac transformer to give 2 x 24Vac outputs.

Order Codes:		List Price
AX-FRM3-TX25	Fan speed relay module and 25VA Tx	£33.00
AX-FRM3-TX30	Fan speed relay module and 30VA Tx	£35.00

Features:

- . 24Vac and 24 x 230Vac input (with common neutral)
- . 3 x SPCO relay output
- . 25VA or 30VA Transformer with 2 x 24Vac terminals
- . 24Vac output

Specifications:

Power Supply:	230Vac for transformer
Input Signal:	3 x 230Vac or 24Vac
Output Contacts:	3 x SPCO
Contact Rating:	12A @ 250Vac (res)
Transformer:	230 to 24Vac - 25VA or 30VA
Ambient Range:	0 to 50°C



RELAY MODULES

Relay Modules

Three Stage Multi-Mode Relay Module



AX-RM3M/RL3R

A Triple Relay module with 7 switch-selectable operating modes and time delay. The module can be used to control three-stage loads, as a fan/heat/cool switch. The module includes a time delay and the signal can be reversed.

Order Codes:		List Price
AX-RM3M	Three-stage multimode relay module	£22.00
AX-RL3R	Raise/Lower input to 3 stage relay module	£32.00

Features:

- . Multiple operating modes . LED Indication of output status
- Manual override jumpers to aid commissioning

Specifications:

Input Signal - RM3M:	0-10 or 2-10Vdc (2mA max)
Input Signal - RL3R:	12/24Vac/dc or VFC Raise/Lower
Output Contacts:	3 x SPCO
Contact Rating:	12A @ 250Vac (res)
Power Supply:	24Vac/dc +/- 10%
Modes of Operation:	7
Time delay:	0 to 60 seconds

Four Stage Multi-Mode Relay Module



AX-RM4M/ RM4AB

Two versatile relay output modules with multiple operating modes. One unit can be configured for up to 9 modes of operation to control four independent loads from a single 0-10 or 2-10Vdc signal. The signal can be reversed. The AX-RM4AB is also available with 4 adjustable switchpoints.

Order Codes:		List Price
AX-RM4M	Four-stage multimode relay module	£30.00
AX-RM4AB	Four relay module 4 adjustable switchpoints On & Off	£48.00

Features:

- Multiple operating modes
- LED Indication of output status
- Can control four independent loads from a single analogue signal

Specifications:

Input Signal:	0-10 or 2-10Vdc (2mA max)
Output Contacts:	4 x SPCO
Contact Ratings:	12A @ 250Vac (res)
Power Supply:	24Vac/dc +/- 10%
Modes of Operation:	9 (RM4AB - 1 mode)
Time Delay:	0 to 60 seconds (RM4M only)
Ambient Range:	0 to 50°C
Manual Override:	ON/OFF/AUTO

Six Stage Multi-Mode Relay Module





For cascade control of 6 stages of heating or cooling from a single 0-10 or 2-10Vdc signal. Up to 9 different modes of operation are available and the signal can also be reversed. Can be connected to the AX-RM4M to provide 10 switched stages.

Order Codes:		List Price
AX-RM6M	Six-stage Multi-Mode relay module	£45.00

Features:

- Multiple operating modes
- LED Indication of output status
- Manual override jumpers to aid commissioning
- Contact rating 12A @ 250Vac (resistive)

Specifications:

Input Signal:	0-10 or 2-10Vdc (2mA max)
Output Contacts:	6 x SPCO
Contact Ratings:	12A @ 250Vac (res)
Power Supply:	24Vac/dc +/- 10%
Modes of Operation:	9
Time Delay:	0 to 60 seconds

Override Relay Module

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AX-ORM4C



Four relays each one activated by a digital output. The unit offers the facility to override any of the relays using the on-board jumpers. The board is powered, allowing minimal current draw on the controller outputs. Link selection allows 1 input to operate up to 4 outputs.

Order Codes:		List Price
AX-ORM4C	Four-stage override relay module	£42.00

Features:

- LED Status indication of relays
- Override function to facilitate easier commissioning
- Relays activated from standard controller outputs

Specifications:

Input Signal:	4 x 0-10Vdc (2mA max)
Must Operate:	5Vdc
Output Contacts:	4 x SPCO
Contact Rating:	12A @ 250Vac (res)
Power Supply:	24Vac/dc +/- 10%
Manual Override	3 x ON/OFF/AUTO
Ambient Range	0 to 50 ^o C



Multiplexers - Digital & Analogue

Digital Input Multiplexing Module - 4 or 6 inputs



AX-DIM4-MI/DIM6-MI

Calculates a single analogue value based on the status of the four input signals. This signal can then be decoded within a BMS controller to give the status of each individual digital Input. The module is designed as a direct replacement for the equivalent "Trend" module.

Order Codes:		List Price
AX-DIM4-MI	Four channel digital input multiplexer	£18.00
AX-DIM6-MI-V	Six channel multiplexer, voltage output	£33.00
AX-DIM6-MI-I	Six channel multiplexer, current output	£33.00

Features:

- . Can be powered from 24Vac/dc
- Link-selectable voltage or current output
- . Inputs can be volt free or 24Vac/dc

Specifications:

Power St	Power Supply: 24Vac/dc +/- 15% (40mA max @ 24Vdc)		
Input:	DIM4	4 x Volt free or 4 x 24Vac/dc or combination	
	DIM6	6 x Volt free or 24Vac/dc or combination	
Output:	Voltage	e 0-10Vdc max load 10mA	
	Curren	0 to 20Ma (max load resistance 470Ω)	

Digital Input Multiplexing Module Resistance Output



AX-DIM5R

The module multiplexes 5 digital inputs into one floating resistance output. The resistance output range is designed to interface directly with the TAC Micronet range of controllers but can also be used with any similar compatible controller.

Order Codes:		List Price
AX-DIM5R	Five channel multiplexer, resistance output	£33.00

Features

- . LED Status indication
- For TAC Micronet Controller (or similar)
- . 22.1K Ω offest jumper

Specifications:

Power Supply:	24Vac/dc +/- 15% (40mA max @ 24Vdc)		
Input:	5 x Volt	5 x Volt free or 4 x 24Vdc or combination	
Output tolerance:	+/-2Ω of nominal maximum		
Offset:	22.1Ω		
Output:	Rp off	779.9 to 1557.9Ω	
	Rp on	752.4 to 1455.3Ω	

Analogue Input Multiplexing Module - 4 Inputs



AX-VMUX

This module multiplexes 4 0-10V input signals over 2 analogue lines, doubling the number of analogue lines available. Additional AX-VMUX can be cascaded using one additional analogue line each.

Order Codes:		List Price
AX-VMUX	Four channel analogue input mulitplexer	£27.00

Features:

- . Can be powered from 24Vac/dc
- Can connect directly to AX-VDEMUX
- . 4 x 0-10V inputs

Specifications:

Power Supply:	24Vac/dc +/- 15% (40mA max @ 24Vdc)
Input:	4 x 0-10Vdc max load 1mA
Output:	0-10Vdc max load 5mA
Selection:	1-4Vdc max load 5mA (Input or Output)

Analogue DeMultiplexing Module - 4 Outputs



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AX-VDEMUX

The AX-VDEMUX module demultiplexes 4 switched 0-10V signals multiplexed over two analogue lines, doubling the number of analogue lines available. Additional AX-VDEMUX can be cascaded using one additional analogue line each.

Order Codes:		List Price
AX-VDEMUX	Four channel analogue demultiplexer	£27.00

Features:

- Can be powered from 24Vac/dc
- Can connect directly to AX-VMUX
- . 4 x 0-10V outputs from one input

Specifications:

Power Supply:	24Vac/dc +/- 15% (40mA max @ 24Vdc)	
Input:	1 x 0-10Vdc max load 1mA	
Output:	4 x 0-10Vdc max load 5mA	
Selection:	1-4Vdc max load 5mA (Input or Output)	



Raise/Lower & Conversion Modules

Analogue to Raise/Lower Modules



AX-ARL

These modules are designed to convert a 0-10Vdc input signal to drive a raise/lower volt free relay or triac output. The modules can be configured for 2 fully adjustable ranges and one fixed time. The module includes an automatic 24 hour reset. There is also a version with solid state Triac outputs.

Order Codes:		List Price
AX-ARL	Raise/Lower control module	£18.00
AX-ARL-SSR	Raise/Lower solid state triac control module	£32.00

- One fixed and two adjustable time ranges
- Low noise zero crossing outputs
- Automatic 24 hour reset.
- Complete with DIN rail carrier

Specifications:

Power Supply:	24Vac 50/60Hz			
Input Signal:	0-10Vc	0-10Vdc (1mA max)		
Output:	2 x SPCO (or SSR Triac o/p)			
Contact Rating:	12A @ 250Vac (res)			
Raise/Lower Times:		Variable 1	Fixed	Variable 2
	ARL	90-300 secs	210 secs	30-150 secs
	ARL2	10-30 secs	90 secs	60-120 secs

Raise/Lower to Analogue Module



AX-RLA/RL230ACT

The AX-RLA modules accept a raise/lower input signal and provides a 0-10Vdc output. Additional features include LED status indication and the option of 24Vac output to the valve actuator to reduce cabling.

Order Codes:		List Price
AX-RLA-AC	Raise/Lower to analogue module 24Vac	£35.00
AX-RLA230ACT	Raise/Lower to analogue module 230Vac	£59.00

Features:

- 16 standard actuator timing ranges
- 24Vac to drive the actuator
- . 0-10Vdc output

Specifications:

Power Supply:	RLA-AC	24Vac @ 50/60Hz +/- 15%
	RLA230	230Vac @ 50/60Hz
Input:	RLA	Relay contact, transistor, triac, 24Vac
	RLA230	230Vac Raise/Lower
Input Ranges:	30 up to 480 seconds (typical actuator times)	
Output:	0-10V @ 10mA max	
	24Vac to drive the valve actuator	

Signal Conversion Modules





A series of modules which can convert current to voltage (or vice-versa) and also opto-isolate the input signal from the output to the BMS or other controller. The new AX-ABC converts an analogue signal to 0-10Vdc and can also power the signal loop.

Order Codes:		List Price
AX-ABC	Analogue to 0-10Vdc conversion module	£18.00
AX-ABC-Dual	Two analogue to 0-10Vdc conversion modules	£34.00
AX-VI	0-10Vdc to 4-20mA conversion module	£24.00
AX-VSM	0-60Vdc to 0-10Vdc scaling module	£22.00
AX-ARM	Analogue rescaling module	£70.00

- Powered from standard 24Vac supply
- Converts voltage signal to current signal
- (AX-VI)

Specifications:

Power Supply:	24Vac/dc +/- 15%
Input:	Refer to data sheets
Output:	Refer to data sheets

Dual Analogue Output Module

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AX-DAOM



The AX-DAOM Dual module converts one analogue 0-10Vdc input signal to two 0-10Vdc proportional output signals with an adjustable deadband.

Order Codes:		List Price
AX-DAOM	Analogue dual output module	£28.00

Features:

- Adjustable deadband around 5V
- Can be powered from 24Vac/dc
- . LED Status indication

Specifications:

Power Supply:	24Vac/dc +/- 10% (40mA max @ 24Vdc)
Input:	0-10Vdc
Output:	2 x 0-10Vdc max load 10mA each
Deadband:	Adjustable around 5V



I.O. Modules

Pulse Width to Analogue Converter Module

AX-PTA/MPTA



These modules are designed to convert and/or isolate a PWM or pulse signal from the analogue output. Opto-electronic isolation built in (MPTA only).

Order Codes:		List Price
AX-PTA	Pulse width to 0-10Vdc module	£38.00
AX-MPTA	Pulse width/Pulse to analogue module	£80.00

Features:

- Fully isolated input
- 24Vac/dc powered
- Opto-electronically isolated
- . 0-10Vdc output at max load 10mA

Specifications:

Power Supply:		24Vac +/- 15%
Input:	Isolated	12 or 24Vac/dc or pulse
	Non-isolated	12 or 24Vac/dc or pulse or VFC
Output:	PTA	0-10Vdc @ max load 10mA
	MPTA	0-10V and 4-20mA

Water Meter Pulse to Analogue Module

AX-WMPAC



The AX-WMPAC converts a water meter reed switch pulse to a 0-10Vdc signal. The module has 4 litre/pulse and 8 maximum flow settings to enable it to accurately output the flow rate.

Order Codes:		List Price
AX-WMPAC	Water meter pulse to analogue converter - DIN rail	£38.00
AX-WMPAC-E	Water meter pulse to analogue converter with Enclosure	£80.00

Features:

- 24Vac or dc powered
- 8 Selectable maximum flow settings
- . 4 Selectable litre/pulse settings

Specifications:

Power Supply:	24Vac/dc +/- 15%
Input:	Reed switch pulse
Output:	0-10Vdc @ 10mA maximum load
Litre/Pulse settings:	1/10/100/1000 litre/pulse
Maximum Flow settings:	3 to 80m3/hr
Ambient Range:	0 to 50°C

Resistance Input Modules

AX-RIM



The AX-RIM provides a 0-10Vdc output based on a resistance input of either $0-135\Omega$ or $0-1k\Omega$.

Order Codes:		List Price
AX-RIM135	0 to 135Ω resistance input module	£26.00
AX-RIM1K	0 to 1kΩ resistance input module	£26.00

Features:

- 24Vac or dc powered Two standard resistance ranges available
- Allows a potentiometer to be used with a broad range of systems

Specifications:

Power Supply:	24Vac/dc +/- 10%
Standard Input:	135 Ω or 1k Ω
Output:	0-10Vdc

Resistance Output Modules

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AX-ROM



The AX-ROM converts an analogue input to a resistance signal output of either $0-135\Omega$ or $0-1k\Omega$. (Other resistance values also available).

Order Codes:		List Price
AX-ROM135	0 to 135Ω resistance output module	£175.00
AX-ROM1K	0 to 1kΩ resistance output module	£175.00

Features:

- 24Vac or dc powered
- . Two resistance ranges available as standard

Specifications

Power Supply:	24Vac/dc +/- 10%	
Input:	0-10Vdc	
Standard Outputs:	135 Ω or 1k Ω	
	270 Ω , 500 Ω , 1.5k Ω , 2k Ω , 3k Ω , 4k Ω , 5k Ω , 10k Ω , 20k Ω , 40k Ω	
Ambient Range:	0 to 50°C	



Rescaling, Limiting & Splitter Modules

Dual Voltage Rescaling Module

AX-DVRM

The DVRM module accepts 2 0-10V inputs and rescales them as set before being output as 2 rescaled 0-10V signals.

Features:

- . Two independent 0-10V input/outputs
- Multi-turn presets to set rescaling values



Specifications:

Power Supply:	24Vac/dc +/- 15%
Input:	2 x 0-10Vdc max load 1mA
Output:	2 x rescaled 0-10Vdc max load 5mA

Analogue Limiting Module

AX-ALM

The ALM module accepts 3 0-10V input signals which are then limited to within the set range before being output as limited 0-10V signals.

Features:

- . Three independent 0-10V inputs
- . Adjustable maximum limit of each input
- . Adjustable minimum limit of each input

Order Codes:		List Price
ΔΥ-ΔΙΜ	Analogue limiting module	£30 UU

Specifications:

Power Supply:	24Vac/dc +/- 15%
Input:	3 x 0-10Vdc max load 1mA
Output:	3 x 0-10Vdc max load 5mA

Voltage Splitter & Reference Module

AX-VSR

The VSR module takes a 0-10V input and outputs 3 x buffered 0-10V outputs. The module also includes an adjustable reference output factory set to 10V. This can be connected to an external potentiometer to provide a low cost 0-10V setpoint.

Features:

- . 3 Buffered 0-10V outputs
- . Can be powered from 24Vac/dc
- . Converts external potentiometer to 0-10V

Order Codes:		List Price
AX-VSR	Voltage Splitter and Reference module	£29.00

Specifications:

Power Supply:	24Vac/dc +/- 10% (40mA max @ 24Vdc)
Input:	0-10Vdc
Output:	3 x buffered 0-10Vdc @ 5mA max load

Current Splitter Module

AX-CSM-x



This module will accept a single analogue input and split that signal into 2, 3 or 4, 4-20mA outputs. The outputs are always scaled identically and will always track each other. The unit can also power a 24Vdc current loop signal.

Order Codes:		List Price
AX-CSM-2	Current Splitter module analogue to 2 x 4-20mA	£49.00
AX-CSM-3	Current Splitter module analogue to 3 x 4-20mA	£54.00
AX-CSM-4	Current Splitter module analogue to 4 x 4-20mA	£59.00

Features:

- . Field adjustable analogue input ranges
- . 2, 3 or 4 x 4-20mA outputs
- . Din rail mounting

Specifications:

Power Sup	ply:	24Vdc and 24Vac 50/60Hz +/- 15%
Inputs:	Voltage	0-5Vdc, 0-10Vdc, 2-10Vdc
	Current	0-20mA, 4-20mA, 0-10mA
Output:		2,3 or 4 x 4-20mA
Supply Cur	rent:	100mA max
Output Loa	ad:	500Ω max
Ambient R	ange:	0 to 50 ^o C



Phase Cut Modules & Analogue to Pneumatic

Phase Cut Modules

AX-PCM



A range of modules which convert a 0-10Vdc signal to a 0-20 phase-cut signal, predominantly used to drive older Staefa control valves. Versions are available to suit different loads.

Order Codes:		List Price
AX-PCM2-30i	Dual channel 30VA phase cut module	£42.00
AX-PCM120i	Single channel 120VA phase cut module	£70.00

Features:

- . Opto-isolated
- Output can be boosted using the AX-MPCA amplifier (PCM2-30 only)
- . Dual channel version available

Specifications:

Power Supply:	24Vac +/- 10%	
	PCM120i	PCM2-30i
Input Signal:	0-10Vdc	2 x 0-10Vdc
Phase Cut Output:	0-20V	2 x -20V
Rating:	120VA	2 x 30VA

Phase Cut Amplifier Module

AX-MPCA



An amplifier module which can be used to boost the output of one channel of a AX-PCM2-30i to drive loads up to 60VA.

Order Codes: List Price AX-MPCA Phase cut amplifier module £45.00

Features:

- . 60VA phase-cut output
- Designed to operate with the AX-PCM2-30 phase cut module

Specifications:

Power Supply:	24Vac
Output Supply:	0-20V Phase cut - 60VA
Input Signal:	20V Phase cut from AX-PCM-2-30i
Terminals:	Rising clamp for 0.5-2.5mm Cable

Minimum, Maximum and Averaging Module



AX-AMMM

The AX-AMMM accepts up to 5 0-10V signals and provides 4 0-10V outputs representing the average, maximum, minimum and middle value of the inputs.

Order Codes:		List Price
AX-AMMM	4 Ch Minimum, maximum & averaging module	£36.00
AX-MMA-6	6 Ch Minimum, maximum & averaging module	£94.00

Features:

- Min, max, middle and average of 2/3/4/5 inputs
- Differential above and below of inputs
- 1-2 & 3-4
- . Maximum and average differential of 2/3/4 Inputs above and below setpoint 10

Specifications

Power Supply:	24Vac/dc +/- 15%
Inputs:	5 x 0-10Vdc input 1mA max
Outputs:	4 x 0-10Vdc outputs 5mA max

Analogue to Pneumatic Modules



Tel: +44 (0)1420 487788

AX-EPC

The AX-EPC range is an analogue to pneumatic convertor which converts an analogue input signal to a proportional pneumatic output, modulating its control valve(s) to regulate the branch line pressure to the set point determined by the input signal.

Order Codes:		List Price
AX-EPC	Single Valve Analogue to Pneumatic 0-15psig	£105.00
AX-EPC-G	Single Valve Analogue to Pneumatic + Gauge 0-15psig	£115.00
AX-EPC2	Dual Valve Analogue to Pneumatic 0-15psig	£125.00
AX-EPC2-G	Dual Valve Analogue to Pneumatic + Gauge 0-15psig	£135.00

Features:

- Field selectable offset and span
- Field adjustable pressure output ranges
- . Field selectable analogue input ranges
- . Closed loop control

Specifications:

Power Supply:	24Vac/dc 50/60Hz	
	0-10Vdc, 0-15Vdc, 0-20mA @ 250Ω	
Air Supply:	Max 25psig Min 18psig	
Output Pressure Range:	0-10, 0-15, 0-20psig jumper selectable	



CONTROLLERS

Solid State Relays and Power Regulators

Single Phase Solid State Relays - DIN Rail Mount

AX-SSR1-xx-xx

A range of Single Phase Solid State Relays suitable for loads up to 6kW. Various control input options are available both ac and dc. Applications include switching heating coils, duct heaters and similar products.

Order Codes:	For 230Vac change -24 to -230 (at additional costs)	List Price
AX-SSR1-20-DC	4-38Vdc input 4.8kW (20A) output	£39.00
AX-SSR1-20-24	24Vac input 4.8kW (20A) output	£39.00
AX-SSR1-25-DC	4-38Vdc input 6kW (25A) output	£48.00
AX-SSR1-25-24	24Vac input 6kW (25A) output	£48.00

Features:

- Over temperature protection LED Output status indication
- DIN rail mounting
- . Integrated heatsink for optimum heat dissipation

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Control Input:		24Vac or 4-38Vdc
Rated Supply:		230Vac 50/60Hz
Rated Load:	-20	20A (resistive) = 4.8kW
	-25	25A (resistive) = 6kW

Three Phase Solid State Relays - DIN Rail Mount

AX-SSR3-xx

A range of Three Phase Solid State Relays suitable for loads up to 12kW. Units are controlled from a voltage control signal.



Order Codes:	Specify control voltage = -DC = 4-38Vdc -24 = 24Vac -230 = 230Vac	List Price
AX-SSR3-6	Three Phase 6kW Solid State Relays	£54.00
AX-SSR3-12	Three Phase 12kW Solid State Relays	£69.00

Features

- Over temperature protection
- LED Output status indication
- . Integrated heatsink for optimum heat dissipation

Specifications:

Load Supply:		380 to 440Vac Three Phase 50/60Hz				
Control Input:	-24	24Va	24Vac			
	-DC	4-38	4-38Vdc			
	-230	230Vac				
Rated Load:	Load	d/ph Fusing/ph Dissipated Heat				
6kW	8.7A		10A	20W		
12kW	16.5A		20A	40W		

Single Phase Power Regulators

AX-MPR1-x

A range of Single Phase Power Regulators suitable for loads up to 12kW. Units use "zero point switching" technology to reduce RFI problems and extend system lifespan. DIN rail mounted to 9kW, the 12kW is panel mounted.



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Order Codes:		List Price
AX-MPR1-2	Single phase 2.0kW power regulator	£45.00
AX-MPR1-4	Single phase 4.0kW power regulator	£70.00
AX-MPR1-6	Single phase 6.0kW power regulator	£95.00
AX-MPR1-9	Single phase 9.0kW power regulator	£130.00
AX-MPR1-12	Single phase 12kW power regulator	£225.00

Features:

- Over temperature protection
- LED Output status indication
- Alarm output (except 2kW)
- . Integrated heatsink for optimum heat dissipation

Specifications:

Power Supply:	24Vac/dc +/- 10% -2kW 230Vac from load					
Input:	0-10Vac	0-10Vac				
Rated Load:	Load/ph Fusing/ph Dissipated Hea					
2kW	8.7A	10A	11W			
4kW	18A	20A	22W			
6kW	25A	30A	34W			
9kW	37.5A	40A	63W			
12kW	52A	60A	85W			

Single Phase Power Regulators - Raise/Lower Input

AX-MPR1-xx-RL



A range of Single Phase Power Regulators which accept a raise/lower input suitable for loads up to 9kW. Units use "zero point switching" technology to reduce RFI problems and extend system lifespan.

Order Codes:		List Price
AX-MPR1-2-RL	Single phase 4kW raise lower power regulator	£60.00
AX-MPR1-4-RL	Single phase 6kW raise lower power regulator	£110.00
AX-MPR1-9-RL	Single phase 9kW raise lower power regulator	£145.00

- Over temperature protection
- LED Output status indication
- Alarm output
- . Integrated heatsink for optimum heat dissipation

Specifications:

24Vac/dc +/- 10% -2kW from supply			
24Vac Raise Lower signal			
Load/ph Fusing/ph Dissipated Heat			
8.7A	10A	11W	
18A	20A	22W	
37.5A	40A	63W	
	24Vac Rais Load/ph 8.7A 18A	24Vac Raise Lower signal Load/ph Fusing/ph 8.7A 10A 18A 20A	



CONTROLLERS

Power Regulators

Three Phase Power Regulators - DIN Rail Mount

AX-MPR3-xx

A range of Three Phase Power Regulators suitable for loads from 6 to 18kW. Units use "zero point switching" technology to reduce RFI problems and extend system lifespan.



Order Codes:		List Price
AX-MPR3-6	Three phase 6kW power regulator	£80.00
AX-MPR3-12	Three phase 12kW power regulator	£95.00
AX-MPR3-18	Three phase 18kW power regulator	£125.00

- . Over temperature protection . LED Output status indication
- Alarm output
- Integrated heatsink for optimum heat dissipation

Specifications:

Power Supply:	24Vac/dc -	⊦/- 10%	
Input:	0-10Vdc		
Rated Supply:	415Vac 50/60Hz (600V versions available)		
Rated Load:	Load/ph	Fusing/ph	Dissipated Heat
6kW	8.7A	10A	20W
12kW	16.5A	20A	40W
18kW	25A	30A	60W

Three Phase Power Regulators - Panel Mount

AX-PPR3-27/36/54

Three Phase Power Regulators in rugged enclosures suitable for loads up to 54kW. The 54kW version uses a fan to disperse heat whereas the smaller units have unassisted cooling.



Order Codes:		List Price
AX-PPR3-27	Three phase 27kW power regulator	£225.00
AX-PPR3-36	Three phase 36kW power regulator	£295.00
AX-PPR3-54	Three phase 54kW power regulator	£385.00

Features:

- Over temperature protection
- LED Output status indication
- Alarm output
- . Integrated heatsink for optimum heat dissipation

Specifications:

Power Supply:		24Vac/dc +/- 10%			
Input:		0-10Vdc			
Rated Supply	:	415Vac 50/60Hz			
Rated Load:	L	_oad/ph	Fusing/ph	Dissipated Heat	
27kW		37.5A	40A	85W	
36kW		150A	60A	167W	
54kW		75A	80A	250W	

Three Phase Power Regulators - Panel Mount

AX-PPR3-72 & -105

Three Phase Power Regulators in a tough enclosure suitable for loads up to 105kW. All heat is dissipated without the need for additional fans or heatsinks.



Order Codes:		List Price
AX-PPR3-72	Three phase 72kW power regulator	£500.00
AX-PPR3-105	Three phase 105kW power regulator	£630.00

- Over temperature protection
- LED Output status indication
- . Integrated heatsink for optimum heat dissipation

Specifications:

Power Supply:		24Vac/dc +/- 10%			
Input:		0-10Vdc			
Rated Supply:		415Vac 50/60Hz			
Rated Load:	L	.oad/ph	Fusing/ph	Dissipated Heat	
72kW		100A	Internal	335W	
105kW		146A	Internal	487W	

Three Phase Power Regulators - Panel Mount

AX-PPR3-150-180-280-400

Three Phase Power Regulators in a tough enclosure suitable for loads up to 400kW. All heat is dissipated without the need for additional fans or heatsinks. The units are built and fused according to the actual load requirements.



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Order Codes:		List Price
AX-PPR3-150	Three phase 150kW power regulator	£1150.00
AX-PPR3-xxx	Three phase power regulator specify load	£P.O.A

Features:

- Over temperature protection
- LED Output status indication
- Alarm output
- . Integrated heatsink for optimum heat dissipation

Specifications:

Power Supply:	24Vac/dc +/- 10%
Input:	0-10Vdc
Rated Supply:	415Vac 50/60Hz
Fused:	According to load
Ambient Range	0 to 55°C (note rated at 40°C)
Rated Load:	See data sheets



Proportional & Window Controllers

DIN Rail Mounted P I Temperature Controller

AX-PI



The AX-PI Compact Temperature Controller takes 1 or 2 thermistor inputs and provides either 1 or 2 0-10(2-10)Vdc outputs with a PI algorithm to the difference between the setpoint and the measured temperature. The controller has an adjustable deadband and an LCD and 3 push buttons to aid setup.

Order Codes:		List Price
AX-PI	DIN rail PI controller 1-11K Ω remote setpoint	£55.00
AX-PI-5	DIN rail PI controller 5V central	£55.00
AX-PI-R10V	DIN rail PI controller 0-10V remote setpoint	£55.00
AX-POT	Remote setpoint 1-11kΩ	£15.00

Features:

- Heating and/or cooling 0-10V PI output
- LCD display and setup buttons
- . Adjustable proportional and integral band
- Two temperature, setback and remote setpoint

Specifications:

Power Supply:	24Vac/dc +/- 15%
Power Consumption:	2VA approx
Input Signal:	1 or 2 thermistor temperature
Output Signal:	2 x 0-10(2-10)Vdc @ 3mA
Control Range:	-5 to 95 ^o C adjustable

DIN Rail Mounted P I Controller

AX-PI-A



The AX-PI-A Compact Controller takes a 0-10V sensor input and provides either 1 or 2 0-10(2-10)Vdc outputs with a PI algorithm to the difference between the setpoint and the measured condition. The output signal can be used to control damper motors, valve actuators, relay modules or thyristor power controllers among others. The controller has an adjustable deadband and an LCD.

Order Codes:		List Price
AX-PI-A	DIN rail PI controller 0-10V I/P	£60.00
AX-POT	Remote setpoint 1-11kΩ	£15.00

Features

- Suitable for RH. AQ. Co2 control
- LCD display and setup buttons
- Adjustable proportional and integral band
- 1 x analogue input, setback and remote setpoint inputs

Specifications

Power Supply:	24Vac/dc +/- 15%
Power Consumption:	2VA approx
Input Signal:	0-10Vdc
Output Signal:	2 x 0-10(2-10)Vdc @ 3mA

Proportional Controllers



AX-xC-Px

The Ax-xC-Px series of Proportional Temperature Controllers provides a 0-10Vdc output proportional to the difference between the setpoint and the measured temperature. The output signal can be used to control adamper motor, valve actuator, relay module or a thyristor power controller among others.

Order Codes:		List Price
AX-VSR	Room proportional controller 1 x 0-10V o/p	£29.00
AX-RC-P1	Room proportional controller 2 x 0-10V o/p	£42.00
AX-IC-P1	Immersion proportional controller 1 x 0-10V o/p	£50.00

Features:

- Heating or cooling proportional 0-10V output
- Adjustable proportional band
- . Room, duct and immersion versions

Specifications:

Power Supply:	24Vac/dc +10% / -15%
Output Signal:	0-10Vdc min 1k Ohm
Setpoint Range:	-10 to 50 ^o C
Ambient Range:	0 to 50 ^o C

Window Actuator Controller

Tel: +44 (0)1420 487788





The AX-WAC is a 3 channel window controller providing timed forward/reverse outputs to open and close 2 wire DC window actuators. Each output can be driven from a separate 0-10V input or can be combined. Any cycle time from 5 to 240 seconds can be set. A "Close all" input is also provided.

Order Codes:		List Price
AX-WAC	Window actuator controller	£69.00

- Three independent forward/reverse outputs
- 5 to 240 seconds cycle time ranges
- . "Close All" input to close all windows . 0-5, 2-10 or 0-10V input range selection

Specifications:

Operating Voltage:	24Vac/dc (+/- 15%)
Inputs:	3 x Control inputs 0-5, 2-10 or 0-10Vdc
	VFC "Close all" contact
Output:	3 x Output Relay Pairs - Open/Close
Relay Rating:	5A @ 24Vdc



CONTROLLERS

Fan Coil & Free Cooling Controllers

Room Digital Fan Coil Controllers



AX-E07xx

AX-EX07xx Thermostats and Controllers are stand-alone, microprocessor based thermostats with a large LCD display. The units are designed to control the fans, valves, compressors or electric heaters in fan-coil unit and air-conditioner applications. The models are available for cooling and/or heating control of 2 and 4pipe fan-coil units. The models are backlit.

Order Codes:	Specify Voltage	List Price
AX-E07A	Heating On/Off Fan Coil Controller	£26.00
AX-E07B	Cooling On/Off Fan Coil Controller	£26.00
AX-E07C	Heating & Cooling On/Off Fan Coil Controller	£27.00
AX-E07F	Heating or Cooling Raise/Lower Controller	£27.00
AX-E07P	Heating or Cooling Modulating Controller	£27.00

Features:

- Heating and/or Cooling versions
- Raise/Lower and analogue versions Three speed fan switch
- . Backlight

Specifications:

Operating Voltage:	24Vac 50/60Hz (+/- 10%)
Setpoint Range:	10 to 30°C
Output: On/Off:	1 or 2 x SPDT relay 1A @ 240Vac
Output: Raise/Lower:	2 x 1A @ 230Vac
Output: Analogue:	0-10Vdc
Fan Speed:	2A @ 240Vac

Room Digital Fan Coil Controllers



AX-E05Kxx

AX-EX05Kxx Controllers are stand-alone, microprocessor based controllers with a large LCD displays. The units are designed to control the fans, valves, compressors or electric heaters in fan-coil unit and air-conditioner applications. The models are available for cooling and/or heating control of 2 or 4-pipe FCU.

Order Codes:	Specify Voltage	List Price
AX-E05KF	Heating or Cooling Raise/Lower Controller	£24.00
AX-E05KU	Heating & Cooling Raise/Lower & Modulating Controller	£25.00
AX-E05KP	Heating or Cooling Modulating Controller	£26.00

Features:

- . Heating and/or Cooling versions . Raise/Lower and analogue versions
- Three speed fan switch
- . Backlight

Specifications:

Operating Voltage:	230Vac 50/60Hz (+/- 10%)
Temperature Setting:	0 to 55 ^o C
Setpoint Range:	10 to 30°C
Output: Raise/Lower:	2 x 1A @ 230Vac
Output: Analogue:	0-10Vdc
Fan Speed:	1A @ 240Vac

Damper P I Controller for Free Cooling

AX-CDFC

The AX-CDFC Temperature Controller controls the free cooling air supply over set-point range of 15 to 25°C when outside air is below the free cooling temperature, adjustable between 10 to 0°C. The unit provides proportional control above the setpoint and also provides an interlock signal to prevent compressor operation when free cooling is active.



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Order Codes:		List Price
AX-CDFC	Damper Controller for Free Cooling	£60.00

Features:

- Proportional damper control
- LCD display and setup buttons
- Adjustable proportional and integral band
- . 2 x temperature inputs

Specifications:

Power Supply:	24Vac +/- 15%
Power Consumption:	2VA approx
Input Signal:	thermistor temperature 10K3A1 & 10K4A1
Output Signal:	1 x 0-10(2-10)Vdc @ 3mA
Relay Output:	SPDT rated 6A @ 230Vac resistive load
Control Range:	15 to 25°C adjustable





CONTROLLERS

Wireless & Fan Speed Controllers

Alarm Monitoring & Control System - Wireless - GPRS

AX-AMCS-TWCT-22

The AX-AMCS is a remote equipment monitor and control system which sends an Email/SMS message in case of alarm conditions. The unit takes advantage of the GSM network and the supported GPRS service using an embedded feature-rich web server interface via which the parameters can be configured. The inputs can be used for monitoring of both analogue and digital sensors and remote



Order Codes:		List Price
AX-AMCS-TWCT-22	Alarm Monitoring & Control System	£240.00

Features:

- Dual band frequency for worldwide use (not USA)
- Alarm message service over SMS
- Simple configuration through web browser
- 4 x DI, 2 x AI, 4 x DO
- 4 x LED's for inputs, 4 x LED's for outputs
- Turn the outputs on/off via SMS
- . DIN rail mount

Specifications:

Power Supply:	12-24Vac/dc -/- 10%		
Max Supply Current:	200mA		
Power Consumption:	5W max		
Digital Inputs:	4		
Digital Input Range:	0-10Vdc @60kN. 0-20mA @480kN		
Relay Outputs:	4		
Switching Contacts:	SPDT Relays 7A @ 240Vac resistive 10A @ 24V. Total current 20A		
Wireless Modem:	Dual band GSM 900/1800 MHz		
Interfaces:	RS232 @ 115200baud 8 bits RJ45 GPRS class 10 (16-24Kbps up, 32-48Kbps down) : Via SMS, E-Mail		
Alarm Message Service:			
Protocols:	HTTP & SMTP		
Configurations:	Via internal WEB server interface		

Fan Control

Single Phase Motor Regulators

AX-FC-x

The AX-FC-x is a miniature plug and play Triac Motor regulator for step-less speed regulation of single phase AC motors. Loads can be controlled in both 2 or 3 wire connection mode (capacitor).



Order Codes:		List Price
AX-FC-4	4A Single phase AC motor regulator - DIN rail	£60.00
AX-FC-6	6A Single phase AC motor regulator - DIN rail	£61.00
AX-FC-8	8A Single phase AC motor regulator - DIN rail	£62.00

Features:

- . Integral fuse
- Panel mount
- . Remote analogue control

Specifications:

180 to 250Vac 50Hz
0-10Vdc, 2-10Vdc with autostop, 10 to 0Vdc (specify on order)
0.9kW
1.2kW
1.5kW
4A
6A
8A
-10 to +40°C



THERMOSTATS

Electronic Thermostats

Single Stage Electronic Thermostats - DIN Rail

AX-ET-1-xxx

A compact range of Thermostats that monitor the temperature of air/liquid and give a heating/cooling output in response to temperature change. The setpoint is adjustable via a potentiometer on the PCB or from a remote location. Includes digital display of setpoint.

Order Codes:		List Price
AX-ET1L-230	Compact single-stage 230Vac thermostat	£41.00
AX-ET1L-24	Compact single-stage 24Vac thermostat	£35.00
AX-POT	Remote setpoint	£15.00
AX-ET-1-ENC	IP65 Enclosure	Add £13.00

Features

- . LCD Digital display of setpoint . Four selectable temperature ranges
- . For use with 10K3A1 sensors
- . DIN rail mount as standard (enclosure mounting option)
- Night setback adjustment input included
- (requires a time switch)

Specifications:

Input Supply:	24 or 230Vac +/- 15% 50/60Hz
Output:	SPDT relay
	-5 to +95°C -5/35, 10/50, 35/75, 55/95.
Contact Rating:	10A @ 250Vac res. (3A ind.)

Basic Single Stage Electronic Thermostats - DIN Rail



AX-ET-1-24-R

A simple electronic Thermostat that monitors the temperature of air/liquid and gives a heating or cooling output in response to temperature change. The setpoint is adjustable via a potentiometer on the PCB.

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Order Codes:		List Price
AX-ET-1-24R	Basic single stage electronic thermostat	£19.00

- DIN rail mount as standard
- For use with 10K3A1 sensors

Specifications:

Input Supply:	24Vac +/- 15%
Output:	SPDT relay
Temperature Range:	-5 to +95°C (4 link selectable ranges) -5/35, 10/50, 35/75, 55/95
Contact Rating:	10A @ 250Vac res. (3A ind.)

Multi Stage Electronic Thermostats - DIN Rail

Tel: +44 (0)1420 487788

A range of Multi Stage Electronic Thermostats that monitor the temperature of air/liquid and give multiple heating/cooling outputs in response to temperature change. All the parameters are setup via 3 buttons or from a remote location. Includes digital display of set point and setup parameters.

- . LCD Digital display of setpoint
- 2, 4 or 6 stage versions
 Easy set-up with up/down & menu buttons
- Setpoint on unit
- . Remote setpoint and setback I/PS
- . For use with 10K3A1 sensors

Order Codes:		List Price
AX-ET-2-24	Two-stage 24Vac Thermostat	£49.00
AX-ET-2-230	Two-stage 230Vac Thermostat	£58.00
AX-ET-4-24	Four-stage 24Vac Thermostat	£75.00
AX-ET-4-230	Four-stage 230Vac Thermostat	£86.00
AX-ET-6-24	Six-stage 24Vac Thermostat	£86.00
AX-ET-6-230	Six-stage 230Vac Thermostat	£102.00
AX-ET-POT	Remote setpoint	£15.00
AX-ETx-ENC	IP65 Enclosure	Add £13.00

Specifications:

Input Supply:	24Vac or 230Vac 50/60Hz
Inputs:	Temperature, Remote Setpoint, Setback
Output:	2, 4 or 6 SPDT relays
Contact Rating:	10A @ 250Vac res. (3A ind.)
Temperature Rating:	-10 to +120°C



THERMOSTATS

Room Thermostats

Intelligent Room Temperature Control

AX-Autostat II

A range of Intelligent Thermostats capable of switching loads up to 3kW. The units have an integrated motion detector which reduces the heating setpoint to a setback level when the space is unoccupied. There is an option of concealed or exposed setpoint.

Features:

- Visible or concealed setpoint on the same unit
- . Energy-saving functions . Simple installation



Order Codes:		List Price
AX-Autostat II	Double gang Room Intelligent Thermostat	£97.00

Specifications:

Operating Voltage:	220/240Vac 50Hz
Occupied Temperature Settings:	10 to 30°C
Setback Range:	0 to 10°C from setpoint
Maximum Load:	3kW
Timer Ranges:	15, 30 or 60 minutes

Intelligent Room Temperature Control

AX-Autostat III/IV

A range of Intelligent Thermostats capable of switching loads up to 3kW. The units have an integrated motion detector which reduces the heating setpoint to a setback level when the space is unoccupied. The new Autosat III has a window contact to turn off heating if a window is opened and the Autostat IV has a concealed setpoint.



Order Codes:		List Price
	Single gang Room Intelligent Thermostat c/w exposed setpoint and window contacts	£75.00
	Single gang Room Intelligent Thermostat c/w concealed setpoint	£75.00

- . Visible or concealed setpoint on the same unit
- . Energy-saving functions . Simple installation

Specifications:

Operating Voltage:	220/240Vac 50Hz
Occupied Temperature Settings:	10 to 30°C
Setback Range:	0 to 10°C from setpoint
Maximum Load:	3kW
Timer Ranges:	15, 30 or 60 minutes



Temperature Sensors

Space Temperature Sensors

AX-TE-Rxx

House in a flame-retardant ABS encloser. Available with a range of passive thermistor sensing elements or active 4-20mA or 0-10Vdc output.

Features:

- . Low profile flame-retardant housing
- Suitable for direct surface mounting or for use with a recessed patress
- . Large range of sensor options



Order Codes:			List Price
AX-TE-RT	10K3A1 T	rend, Trane, Priva	£4.00
AX-TE-R3K	3K3A1	Alerton	£4.50
AX-TE-RA	10K4A1	York & Andover	£4.50
AX-TE-RH	20K6A1	Honeywell	£6.00
AX-TE-RD	30K6A1	Drayton	£6.00
AX-TE-R50K	50K6A1	Priva	£6.00
AX-TE-RNIK	Ni1000a/TCF	R Siemens	£10.00
AX-TE-R100	PT100a	Serek	£6.25
AX-TE-R1K	PT1000a	Cylon	£6.00
AX-TE-R2.2K	2.2K	Johnsons	£6.25
AX-TE-RSAT	SAT1	Satchwell	£8.00
AX-TE-RTAC	1K87A1	TAC	£5.00
- SP	1-11K	Ohm Setpoint	Add £8.00
AX-TE-RTXI	4-20mA	active output	£45.00
AX-TE-RTXV	0-10Vdc	active output	£45.00

Specifications:

Housing:	ABS (Flame retardant)
Dimensions - Sensor	85 x 85 x 25mm
Dimensions - Transmitter	70 x 119 x 32mm
Protection:	IP30
Ambient Range:	-10 to +60°C
Weight:	130g (Refer to data sheet for TXI/TXV)
Colour:	Off white

Duct Temperature Sensors

Tel: +44 (0)1420 487788

AX-TE-Dxx

This range incorporates either a high quality thermistor element or an active linear output. The sensor housing offers IP65 protection.

Features:

- . IP65 flame-retardant housing
- Cross-axial flow tip for maximum accuracy
 Large range of sensor options

Order Codes:			List Price
AX-TE-DT	10K3A1 T	rend, Trane, Priva	£8.50
AX-TE-D3K	3K3A1	Alerton	£9.50
AX-TE-DA	10K4A1	York & Andover	£9.50
AX-TE-DH	20K6A1	Honeywell	£10.00
AX-TE-DD	30K6A1	Drayton	£12.75
AX-TE-DNIK	Ni1000a/TCR	Siemens	£12.00
AX-TE-D100	PT100a	Serek	£14.50
AX-TE-D1K	PT1000a	Cylon	£12.60
AX-TE-D2.2K	2.2K	Johnsons	£12.20
AX-TE-DSAT	SAT1	Satchwell	£16.50
AX-TE-DTAC	1K87A1	TAC	£12.00
AX-TE-DTXI	4-20mA	active output	£48.50
AX-TE-DTXV	0-10Vdc	active output	£48.50

Specifications:

Housing:	ABS (Flame retardant)
Probe:	Stainless steel
Dimensions: Housing	55 x 90mm dia
Dimensions: Probe	150 x 6mm dia
Protection:	IP65
Ambient Range:	-10 to +80°C
Weight:	165g (refer to a data sheet for TXI, TXV)

Contact the sales office for - AX-TE-AVF (Flexible Duct Averaging Sensors). AX-TE-AVC (Copper Duct Averaging Sensors)



Temperature Sensors

Immersion Temperature Sensors

AX-TE-Ixx

The sensing element of this range of Immersion Temperature Sensors is housed in a 6mm diameter probe, which is fitted to an IP65 flame-retardant ABS enclosure. The probe is available in 2 lengths. The sensor types include a range of passive elements or active 4-20mA or 0-10Vdc outputs. The units must be used with an appropriate pocket.

Order Codes:			List Price
AX-TE-IT	10K3A1	Trend, Trane, Priva	£9.50
AX-TE-I3K	3K3A1	Alerton	£9.50
AX-TE-IA	10K4A1	York & Andover	£9.50
AX-TE-IH	20K6A1	Honeywell	£10.00
AX-TE-ID	30K6A1	Drayton	£12.75
AX-TE-INIK	Ni1000a/TCR	Siemens	£12.00
AX-TE-I100	PT100a	Serek	£14.50
AX-TE-I1K	PT1000a	Cylon	£12.60
AX-TE-I2.2K	2.2K	Johnsons	£12.20
AX-TE-ISAT	SAT1	Satchwell	£16.95
AX-TE-ITAC	1K87A1	TAC	£12.00
AX-TE-ITXI	4-20mA	active output	£48.50
AX-TE-ITXV	0-10Vdc	active output	£48.50
AX-TE-IBP	Brass Pocket 150mm		£8.50
AX-TE-IBP-65	Brass Pocket 65mm		£8.50
AX-TE-ISP	Stainless Steel Pocket		£14.50

Features:

- IP65 flame-retardant housing
- . No direct contact with media
- . Large range of sensor options
- . High temperature stainless steel probe
- available at extra cost

Specifications:

Housing:	ABS
Probe:	Stainless steel
Dimensions: housing	55 x 90mm dia
Probe	150 x 6mm dia
Small probe	65 x 7mm dia
Protection:	IP65
Ambient Range:	-10 to +80°C
Weight:	165g (Refer to date sheet for TXI, TXV)

Note: High temperature versions suitable for temperatures 0 to 400°C. Contact the sales office for prices and details. Special Length Probes and Pockets: Available at additional cost

Outside Air Temperature Sensors

AX-TE-Oxx

The sensing element of this range of Outside Air Temperature Sensors is housed in a button which is fitted to an IP65 flame-retardant ABS enclosure. The sensor types include a range of passive elements or active 4-20mA or 0-10Vdc outputs. For best results units should be mounted in a sheltered position on a north facing wall.

Features:

- . IP65 flame-retardant housing
- . External sensing point for rapid response

Order Codes:			List Price
AX-TE-OT	10K3A1	Trend, Trane, Priva	£8.00
AX-TE-O3K	3K3A1	Alerton	£8.50
AX-TE-OA	10K4A1	York & Andover	£8.50
AX-TE-OH	20K6A1	Honeywell	£10.00
AX-TE-OD	30K6A1	Drayton	£10.00
AX-TE-ONIK	Ni1000a/TCR	Siemens	£12.00
AX-TE-O100	PT100a	Serek	£12.50
AX-TE-O1K	PT1000a	Cylon	£13.50
AX-TE-O2.2K	2.2k	Johnsons	£13.00
AX-TE-OSAT	SAT1	Satchwell	£17.00
AX-TE-OTAC	1K87A1	TAC	£11.25
AX-TE-OTXI	4-20mA	active output	£48.50
AX-TE-OTXV	0-10Vdc	active output	£48.50

Specifications:

Housing:	ABS (Flame retardant)
Dimensions:	55 x 90mm dia
Protection:	IP65
Ambient Range:	-10 to +60°C
Weight:	130g (refer to a data sheet for TXI, TXV)



Temperature Sensors

Flying Lead Temperature Sensors



AX-TE-Fxx

Temperature Sensors come complete with 2m of screened cable. Sensors are available with a range of passive thermistor sensing elements or an active 4-20mA output. IP68 available on some versions.

Order Codes:			List Price
AX-TE-FT	10K3A1	Trend, Trane, Priva	£3.00
AX-TE-FT-5m	As above with 5m	cable length	£6.25
AX-TE-F3K	3K3A1	Alerton	£4.25
AX-TE-F3K-5m	As above with 5m	cable length	£7.10
AX-TE-FA	10K4A1	York & Andover	£3.85
AX-TE-FA-5m	As above with 5m	cable length	£5.55
AX-TE-FH	20K6A1	Honeywell	£5.00
AX-TE-F50K	50K6A1	Priva	£7.00
AX-TE-FNIK	Ni1000a/TCR	Siemens	£8.00
AX-TE-F100	PT100a	Serek	£8.50
AX-TE-F1K	PT1000a	Cylon	£8.50
AX-TE-FSAT	SAT1	Satchwell	£9.00
AX-TE-FTAC	1K87A1	TAC	£7.00
AX-TE-FTXI	4-20mA active out	put	£45.00
-SS	Stainless Steel Ca	р	Add £1.25
-W	Waterproof IP68		Add £1.25

- . Low cost solution complete with cable
- Low profile cap
- . Large range of sensor options

Specifications:

Cable Length:	2m
Protection:	IP54 (IP68 version)
Probe:	Acetyl (stainless option)
Dimensions of Probe:	40 x 7.5mm dia
Ambient Range:	-10 to +60°C
Weight:	80g (Refer to data sheet for TXI)

Note: Longer cable lengths available on request. Contact the sales office for details.

Strap-on Temperature Sensors



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AX-TE-Sxx

Temperature Sensors which can be mounted onto a pipe using a pipe strap. The sensors are available with a range of passive thermistor or an active 4-20mA output.

Order Codes:			List Price
AX-TE-ST	10K3A1	Trend, Trane, Priva	£10.60
AX-TE-S3K	3K3A1	Alerton	£10.60
AX-TE-SA	10K4A1	York & Andover	£10.60
AX-TE-SH	20K6A1	Honeywell	£13.00
AX-TE-SD	30K6A1	Drayton	£14.50
AX-TE-SNIK	Ni1000a/TCR	Siemens	£16.25
AX-TE-S100	PT100a	Serek	£13.00
AX-TE-S1K	PT1000a	Cylon	£13.00
AX-TE-S2.2K	2.2K	Johnsons	£13.00
AX-TE-SSAT	SAT1	Satchwell	£19.00
AX-TE-STAC	1K87A1	TAC	£13.00
AX-TE-STXI	4-20mA	active output	£48.50

Features:

- Solution complete with pipe strap
- . Large range of sensor options . Bent Stainless lug

Specifications:

ABS (Flame retardant)
55 x 90mm dia
IP54
-10 to +60°C
130g (refer to a data sheet for TXI)
1m

Note: High temperature versions suitable for temperatures 0 to 400°C. Contact the sales office for prices and details.



Temperature Sensors

Thimble & Button Temperature Sensors

AX-TE-Tx

Temperature Sensors mounted in a thimble or enclosure for surface mounting. The sensors are available with a range of passive thermistors. There is also a smaller button option.

Order Codes:			List Price
Thimble Sensors			
AX-TE-TT	10K3A1	Trend, Trane, Priva	£11.00
AX-TE-T3K	3K3A1	Alerton	£11.00
AX-TE-TA	10K4A1	York & Andover	£11.00
AX-TE-TH	20K6A1	Honeywell	£17.00
AX-TE-TN1K	Ni1000a/TCR	Seimens	£15.00
AX-TE-T100	PT100a	Serek	£15.00
AX-TE-T1K	PT1000a	Cylon	£13.00
AX-TE-TSAT	SAT1	Snatchwell	£16.00
AX-TE-TTAC	1K87A1	TAC	£17.00
AX-TE-TTXI	4-20mA	active output	£48.50
/AL	Aluminium Thimble		£10.00
/SS	Stainless Thimble		£22.00
/BR	Brass Thimble		£12.00
Button Sensors			
AX-TE-BT-S	Stainless steel button with 10K3A1 element		£11.00
AX-TE-BT-B	Brass button with 10K3A1 element		£11.00
AX-TE-BT-C	Chrome button with 10K3A1 e	element	£13.00

Features:

- Complete with cable & fixing clip
- . Small stainless steel button available for 10K3A1 or 10K4A1
- . Plastic thimble as standard, other types available

Specifications:

Thimble:	Plastic
Dimensions:	45 x 22mm dia
Cable Length:	2m (button lead is 250mm)
Protection:	IP30
Ambient Range:	-10 to +60°C
Weight:	80g (Refer to data sheet for TXI)

Note: Other small NTC thermistor elements may also be fitted. Ask sales office for prices. These can be fitted to a single gang plate at additional cost.

Black Bulb Temperature Sensors

AX-TE-RBN

The AX-TE-RBN range of Black Bulb Temperature Sensors is used for radiant heat in indoor applications. The sensors are designed to interface with a wide variety of HVAC control equipment. Units are available with a high quality thermistor element. Black Bulb Sensors are used to calculate comfort temperature which is specified as the average of the conductive and radiant temperatures.

Features:

- . Low profile flame-retardant housing
- Suitable for direct surface mounting
- . Large range of sensor options

Order Codes:			List Price
AX-TE-RBN-T	10K3A1	Trend, Trane, Priva	£14.00
AX-TE-RBN-3K	3K3A1	Alerton	£14.00
AX-TE-RBN-A	10K4A1	York & Andover	£14.00
AX-TE-RBN-H	20K6A1	Honeywell	£15.00
AX-TE-RBN-D	30K6A1	Drayton	£15.00
AX-TE-RBN-N1K	Ni1000a/TCR	Seimens	£17.00
AX-TE-RBN-100	PT100a	Serek	£16.00
AX-TE-RBN-1K	PT1000a	Cylon	£16.00
AX-TE-RBN-SAT	SAT1	Snatchwell	£19.00
AX-TE-RBN-TAC	1K87A1	TAC	£15.00

Specifications:

Housing:	ABS (Flame retardant)
Dimensions: Sensor	85 x 85 x 25mm
Protection:	IP30
Ambient Range:	-10 to +60°C
Weight:	140g
Colour:	Off white



Relative Humidity

Room RH & T Transmitters

AX-RHT-S3

Space mounted RH & T Transmitters offer a cost effective solution for high accuracy RH and temperature measurement (optional direct resistive temperature output).



Order Codes:		List Price
AX-RHT-S3	Room RH & T transmitters 3% acc analogue o/p	£60.00
	Room RH & T transmitter 3% acc analogue o/p x = Thermistor (specify Thermistor)	£65.00

- Standard 3% RH accuracy
- High stability and reliability
- . Selectable 0-5/10Vdc or 4-20mA output

Specifications:

Power Supply:	Voltage		24Vac/dc +/- 15%	
	Current		See data sheet	
Output:	Standard		4-20mA or 0-5 or 0-10Vdc	
	Optional for temperature		Thermistor	
Temperature Range:		-10 to +40°C		
Temperature Accuracy:		+/- 0.1	+/- 0.1 ^o C	
Sensor Type:		Capa	citive	
RH Range:		0-95%		
RH Accuracy:		3% (between 5 & 95%RH)		
Stability:		+/-1% RH at 50% in 5 years		
Ambient Range:		0 to 5	0 ₀ C	

Note: Wet bulb, Dewpoint and Enthalpy sensors also available

Duct RH & T Transmitters

AX-RHT-D3

Duct mounted RH & T Transmitters offer a cost effective solution for RH and temperature measurement. Optional direct resistive temperature output. 0-5/10Vdc or 4-20mA output.



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Order Codes:		List Price
AX-RHT-D3	Duct RH & T transmitters 3% acc analogue o/p	£70.00
	Duct RH & T transmitter 3% acc analogue o/p x = Thermistor (specify Thermistor)	£75.00

Features:

- Standard 3% RH accuracy
- . High stability & reliability . 0-10Vdc or 4-20mA output options

Specifications:

Power Supply:	Voltage		24Vac/dc +/- 15%	
Output:	Stand	dard	4-20mA or 0-5 or 0-10Vdc	
	Optional for temperature		Thermistor	
Temperature Range: -10		-10 to	to +70°C	
Temperature Accuracy:		+/- 0.1 ^o C		
Sensor Type:		Capacitive		
RH Range:		0-95%		
RH Accuracy:		3% (between 5 & 95%RH)		
Stability:		+/-1% RH at 50% in 5 years		
Ambient Range:		0 to 50°C		

Note: Wet bulb, Dewpoint and Enthalpy sensors also available



Relative Humidity

Outside RH & T Transmitters

AX-RHT-03

Wall mounted RH & T Transmitters offer a cost effective solution for RH and temperature measurement. Optional direct resistive temperature output. 0-5/10Vdc or a 4-20mA output.



Order Codes:		List Price
AX-RHT-03	Outside RH & T transmitters 3% acc analogue o/p	£75.00
	Outside RH & T transmitter 3% acc analogue o/p x = Thermistor (specify Thermistor)	£80.00

- Standard 3% RH accuracy
- High stability and reliability
- . 0-10Vdc or 4-20mA output options

Specifications:

Power Supply:	Voltage		24Vac/dc +/- 15%	
	Curren	t	See data sheet	
Output:	Standar	ď	4-20mA or 0-5 or 0-10Vdc	
	Optional for temperature			
Temperature Range: -2		-20	20 to +50°C	
Temperature Accuracy: +/-		+/-	0.1°C	
Sensor Type:		Ca	pacitive	
RH Range:		0-95%		
RH Accuracy:		3% (between 5 & 95%RH)		
Stability:		+/-	1% RH at 50% in 5 years	
Ambient Range:		0 to	o 50°C	

Note: Wet bulb, Dewpoint and Enthalpy sensors also available

Thimble RH & T Transmitters

AX-RHT-T3

Thimble mounted RH & T Transmitters offer a cost effective solution for RH and temperature measurement. 0-5/10Vdc or 4-20mA output. Multiple material and finish options available for the thimble.

Features:

- Standard 3% RH accuracy
- . High stability & accuracy
 . White ABS Thimble as standard
- . Brass, Aluminium or Stainless Steel Thimble options
- . 0-10Vdc or 4-20mA output options



List Price N.B. Minimum quantities apply for the colour variants AX-RHT-T3 Thimble RH & T transmitters 3% acc analogue o/p £80.00 Thimble RH & T transmitter £% acc analogue o/p AX-RHT-T3-x £85.00 x = Thermistor (specify Thermistor) AX-RHT-T3-SS Stainless Steel Thimble £102.00 AX-RHT-T3-BR Brass Thimble £92.00 AX-RHT-T3-AL Aluminium Thimble £90.00 AX-RHT-T3-RAL RAL Colour for ABS - specify RAL £P.O.A AX-RHT-T3-PAN Pantone colour for ABS - specify PAN £P.O.A

Specifications:

Temperature Range:	0 to +50°C	
Temperature Accuracy:	+/- 0.1 ^o C	
Thimble:	White ABS as standard	
	Stainless Steel, Brass, Aluminium	
Sensor Type:	Capacitive	
RH Range:	0-95%	
RH Accuracy:	3% (between 5 & 95%RH)	
Stability:	+/-1% RH at 50% in 5 years	
Ambient Range:	0 to 50°C	
Power Supply:	24Vac/dc +/- 15%	
Output: Standard	4-20mA or 0-5 or 0-10Vdc	



Relative Humidity

Relative Humidity Sensor with Resistive Outputs

AX-RH-RES-2xxQ

Wall or ceiling mounted Relative Humidity Space sensor with a resistive output, there are 230 and 24Vac versions. A wide range of resistance curves can be output matched.



Order Codes:	X- Specify Thermistor Output	List Price
AX-RH-RES-230x	230Vac RH sensor c/w resistive o/p	£P.O.A
AX-RH-RES-230Q	230Vac RH sensor c/w Siemens RDF/RDG output	£52.00
AX-RH-RES-24x	24Vac RH sensor c/w resistive o/p	£P.O.A
AX-RH-RES-24Q	24Vac RH sensor c/w Siemens RDF/RDG output	£48.00

- . Fits into standard single back box
- 230Vac & 24Vac options
- . Resistive Output

Specifications:

Power Supply:	-230		230Vac +/- 15%	
	-24		24Vdc +/- 15%	
Accuracy:	Approx		5% RH	
RH Resolution:		1% RH		
Sensor Type:		Planar Capacitive Polymer		
Output Range:		10 to 90% RH		
Output:		Resistance (max current of 1mA)		
Ambient Temperature:		0 to +50°C		

Humidistats

AX-RH-HxC

Wall or duct mounted Humidistats designed for the on/off control of humidification or dehumidification equipments, or the initiation of alarms or override controls.



- Single or Dual stage units available
- Duct or Space mounted
 High stability and reliability
- . Switch mains voltage



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Order Codes:	N.B. Minimum quantities apply for the colour variants	List Price
AX-RH-HSC120-E	Room Humidistat, single stage, exposed setpoint	£73.00
AX-RH-HSC120-C	Room Humidistat, single stage, concealed setpoint	£73.00
AX-RH-HBC111-E	Duct Humidistat, single stage, exposed setpoint	£186.00
AX-RH-HBC111-C	Duct Humidistat. single stage, concealed setpoint	£186.00
AX-RH-HBC112-E	Duct Humidistat, dual stage, exposed setpoint	£P.O.A
AX-RH-HBC112-C	Duct Humidistat, dual stage, concealed stage	£P.O.A

Specifications

Accuracy:	+/- 5% RH
Stability Long Term:	>1.5% RH
Stage Differential:	2 to 15% RH
Differential per Stage:	6% RH
Switch Rating:	5(3)A @ 250Vac



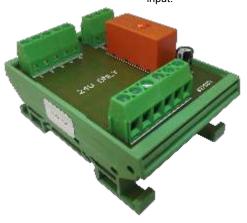
EMERGENCY, WATERLEAK & DISPLAYS

Alarm Integrators & Annunciators

Alarm Integration Module

AX-MA-xx

A range of multi-channel Alarm Integrators which monitor either 10 or 20 input channels and provide a relay output in the event of an alarm signal. The units are self powered from the alarm input.



Order Codes:		List Price
AX-MA-10-24	24Vac/dc 10 ch Alarm integration module	£18.00
AX-MA-10-230	230Vac 10 ch Alarm integration module	£21.00
AX-MA-20-24	24Vac/dc 20 ch Alarm integration module	£32.00
AX-MA-20-230	230Vac 20 ch Alarm integration module	£35.00

Features:

- . Self powered units on 24Vac
- 10 or 20 alarm input contacts
- . 20 Channel option includes a mute relay

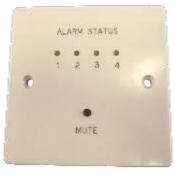
Specifications:

Power Supply:	230Vac		30Vac
	24Vac/dc	S	elf powered
Output:			1 x SPCO relay
Contact Rating:	10 channels		8A @ 250Vac (res)
Contact Rating:	20 Channels		5A @ 250Vac (res)

Alarm Annunciators

AX-AA-x

The AX-AA range of Alarm Annunciators is used in conjunction with VFC signals to provide low cost audible and visual alarms. The alarm threshold and time delay is adjustable. On detection of an alarm condition, the buzzer sounds and the relevant alarm LED changes from green to red. The alarm mute button enables the buzzer to be muted at any time. The LED will not reset until the alarm condition returns to the normal state.



Order Codes:		List Price
AX-AA-1	Alarm Annunciator - 1 channel	£45.00
AX-AA-2	Alarm Annunciator - 2 channel	£50.00
AX-AA-3	Alarm Annunciator - 3 Channel	£55.00
AX-AA-4	Alarm Annunciator - 4 channel	£60.00

Features:

- VFC input
- . 1, 2, 3 or 4 channel versions available . High or low alarm jumper selectable
- . Alarm output relay
- . Audible alarm (disable) & mute button

Specifications:

	24Vac/dc +/- 15%			
Input:		VFC		
Alarm Delay:				
	SPCO	SPCO		
Relay Rating:		10A @ 240Vac (res)		
Buzzer:		80db @ 0.2m		
Mounting:		85 x 85mm single gang plate		
Ambient Range:		0 to 50°C		
Green		= OK		
Fla	ashing Red	= Alarm		
	Red	= Muted Alarm		
		VFC 5 to 30 secs SPCO 10A @ 240V 80db @ 0.2r 85 x 85mm s 0 to 50°C Green Flashing Red		



EMERGENCY, WATERLEAK & DISPLAYS

LCD and LED Displays

LCD Displays

AX-LCD-X

A compact loop-powered LCD Digital Panel Meter giving an accurate zero corrected indication of 4-20mA loop current. LCD-2 & LCD-3 are Voltmeters. Calibration is by two multi-turn potentiometers which allow sensitive adjustment of the instrument. No soldering is required. Connection to the current loop is via two screw terminals. The correct decimal point is selected via a jumper link. The displays are mounted in a single gang front plate, or in the case of the LCD-3 a stainless steel plate.



		_
Order Codes:	Prices for the front panel meters depend on engraving, quantity etc	List Price
AX-LCD-342	Single gang front plate & 11mm LCD Display	£POA
AX-LCD-942	Single gang front plate & 19mm LCD display	£POA
AX-LCD-2	Single gang front plate c/w 2 x 11mm LCD displays	£POA
AX-LCD-3	Hospital Display unit 3 x LCD displays and 2 x LED indicators	£POA

Features:

- . 11mm or 19mm digit height
- Programmable decimal point
- . Simple screw terminal connections
- Loop powered LED backlighting on LCD-342
- . Low voltage drop

Specifications:

Power Supply:	LCD-2		24Vac/dc	
Supply Current:	342/942		20mA	
	LCE)-2	120mA @24Vac	
Input:	342/	942	4-20mA loop powered	
	LCD-2		2 x 0-10Vdc	
LCD Display:	342		11mm height x 4 digit + decimal	
	942		19mm height x 4 digit + decimal	
Accuracy:		Max (0.1	
Linearity:		+/- 1		
Sample Rate:		3 samples/sec		
Supply Current:		20mA		
Ambient Range:		0 to +50°C		

LED Displays

AX-LED-57-x

A range of clear LED displays with 57mm digit height mounted in a ventilated wall mounted enclosure. The units are engraved according to requirements. The RH and Pressure versions require a 0-10Vdc I/P and the temperature version can have a thermistor built in.



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Order Codes:	Other variants available	List Price
AX-LED-57-T	Enclosure mounted LED display - Temperature	£190.00
AX-LED-57-P	Enclosure mounted LED display - Pressure	£185.00
AX-LED-57-R	Enclosure mounted LED display - RH	£185.00

Features:

- 57mm digit height
- 0-10Vdc I/P (or in built thermistor for temperature)
- . Simple screw terminal connections

Specifications:

Power Supply:		24	24 ac/dc		
Dimensions:		21	218(W) x 108(H) x 45(D) mm		
Temperat	ure Range:	0 t	o 40 ^o C (as standard)		
Pressure	Range:	0 t	o 999 Pa		
RH Range:		0 t	0 to 100% RH		
LED Size:		3 x digit 7 segment 57mm height			
Display Resolution:		0.2	0.2 ^o C or 1 Pa		
LED Colour:		Re	Red (Green option)		
Enclosure		Wł	White ABS Plastic		
Ambient Range:		0 t	0 to 50°C		
Input:	Pressure/RH		0-10Vdc		
	Temperature		10K3A1 (built in) (or 0-10V)		



EMERGENCY, WATERLEAK & DISPLAYS

Water Leak & Emergency Products

Water Leak Detection

AX-WLD2-xx

The AX-WLD2-xx range of Two Zone Water Leak Detection products is designed for DIN rail mounting wherever localised water leak detection is required. The cable excitation used is an isolated AC signal which ensures the cable used will not be subject to oxidisation or erosion over time. A relay output provides an alarm signal to a BMS controller or a remote alarm annunciator.

Features:

- Cable, Rain or Point sensors
- Two sensor inputs
- LED Indication of each zone and relay on
- . AC detector excitation for reliability
- . Audible alarm option

Order Codes:		List Price
AX-WLD2-24	Two Zone 24V alarm detection module	£31.00
AX-WLD2-230	Two Zone 230Vac alarm detection module	£38.00
AX-WLD2-24-A	Two Zone 24V alarm detection module + alarm	£38.00
AX-WLD2-230-A	Two Zone 230Vac alarm detection module + alarm	£45.00
AX-WLD2-Enc	Enclosure for WLD2	£14.00
AX-WLD-DTA	Drip tray alarm in an enclosure	£48.00
AX-WCS-2	Cable sensor for WLD2, 2m cable 1m leader	£18.50
AX-WCS-5	Cable sensor for WLD2, 5m cable 3m leader	£24.00
AX-WCS-10	Cable sensor for WLD2, 10m cable 3m leader	£42.00
AX-WCS-15	Cable sensor for WLD2, 15m cable 3m leader	£60.00
AX-WCS-20	Cable sensor for WLD2, 20m cable 3m leader	£74.00
AX-WCS-xx	Customer spec for cable and header	£POA
AX-WPS	Point sensor for WLD2 & 2m cable	£15.00
AX-WRS1	Rain sensor with 1m cable for WLD2	£42.00
AX-CBS1-NO	Condensation sensor - normally open	£56.00
AX-CBS1-NC	Condensation sensor - normally closed	£56.00

Specifications:

Supply Voltage:	WL	D2-24	24Vac/dc @ 50Hz +/- 15%		
	WLI	02-230	230Vac @ 50Hz +/- 15%		
Supply Current:		50mA r	50mA max		
Output:		SPC0 i	relay		
Max Cable Length:		200m leak cable & leader cable per zone			
Contact Rating:		10A @	250Vac (res)		
Alarm Hysteresis:		Depends on sensitivity setting			
Audible Alarm Output: (if -A version)		75bd @ 2.3Hz @ 10cm (when fitted)			
Ambient Range:		-10 to +	-50°C, 0-90% RH condensing		

Plant Extension Timer

AX-PET

The AX-PET is an electronic Timer Switch which provides energy saving functionality in ventilation, boiler and lighting installations. It is ideal for applications where a simple interface is required to control the extension times of the plant. The unit has a red LED screen and a push button to change the extension time.

EXTENSION TIMER

Order Codes:		List Price
AX-PET	Plant Extension Timer	£39.00

Features:

- . 24Vac or 230Vac operation
- . LED Display
- . Flush or surface mounting

Specifications:

Power Supply:	24Vac or 230Vac
Contact Rating:	10A @ 230Vac (res)
Output Contacts:	1 x SPDT
Time Selection:	10,20,30,40,50,60,70,80,90 minutes 2,3,4,5,6,7,8,9 Hours
Ambient Range:	0 to 50°C
Protection:	IP20
Dimensions:	85mm x 85mm x 14mm



Air Pressure

Air Differential Pressure Switches

AX-ADPS

A range of Air Differential Pressure Switches for flow proving and filter status monitoring applications. The switching setpoint is adjusted by means of a calibrated knob mounted under the main cover.



Order Codes:		List Price
AX-ADPS-80	Range 20Pa to 200Pa (10Pa differential)	£12.00
AX-ADPS-83	Range 50Pa to 500Pa (10Pa differential)	£!2.00
AX-ADPS-84	Range 30Pa to 400Pa (15Pa differential)	£12.00
AX-ADPS-85	Range 200Pa to 1000Pa (100Pa differential)	£12.00
AX-ADPS-86	Range 500Pa to 2500Pa (150Pa differential)	£18.00
AX-ADPS-87	Range 1000Pa to 4000Pa (250Pa differential)	£20.00
AX-ADPS-80-IP65	Air DP switch mounted in an IP65 housing	£35.50
AX-ADPS-83-IP65	Air DP switch mounted in an IP65 housing	£35.50
AX-ADPS-84-IP65	Air DP switch mounted in an IP65 housing	£35.50
AX-ADPS-85-IP65	Air DP switch mounted in an IP65 housing	£35.50
AX-ADPS-86-IP65	Air DP switch mounted in an IP65 housing	£41.00
AX-ADPS-87-IP65	Air DP switch mounted in an IP65 housing	£43.00
AX-ADPS-DFK	Duct Fixing Kit (1 is supplied with all switches)	£1.35

Features:

- Cost effective solution
- . Mains rated switch contacts
- . Supplied complete with duct fixing kit
- . IP65 enclosure option

Specifications:

Contact Rating:	1.5A @ 250Vac (res) (0.4A ind)
Maximum Operating Pressure:	5000Pa
Pressure Connections:	6mm I/D push on tubing
Cable Entry:	M20 x 1.5
Protection:	IP54 (IP65 option)
Ambient Range:	-20 to +85°C
Weight:	250g

Multi Range Air Differential Pressure Sensor

AX-ADPT-PTH

A Multi Range Air Differential Pressure Transmitter with 8 jumper selectable ranges which can be used for positive, negative or differential pressure monitoring applications. The unit has jumper selectable 0-10Vdc or 4-20mA output.



Tel: +44 (0)1420 487788

Order Codes:		List Price
AX-ADPT-PTH	Multi Range Air Differential Pressure Transmitter	£92.00

Features:

- . Compact size
- Multi range
- 0-10Vdc or 4-20mA o/p
- LED Indication
- . Supplied complete with duct fixing kit

Specifications:

	In
Power Supply:	24Vac/dc or 13.5 to 28Vdc
Pressure Ranges:	-50 to +50Pa, 0 to 100Pa, 0 to 150Pa, 0 to 300Pa, 0 to 500Pa, 0 to 1000Pa, 0 to 1600Pa, 0 to 2500Pa
Output:	4(0)-20mA or 0(2)-10Vdc
Pressure Connections:	6mm I/D push on tubing
Cable Entry:	M16 Gland
Protection:	IP54
Ambient Range:	-20 to 40°C
Weight:	87g





Air & Liquid Pressure

Static Pressure Transmitters



AX-LSPTD

A range of Pressure Transmitters designed for the HVAC industry. Units are available with either a 0-10Vdc or 4-20mA output. The units are suitable for air, gas and liquids.

Order Codes.	Current Output 4-20mA - 2 wire	LIST PITCE
AX-LSPTSD-I-2.5	Range 0 to 2.5 bar	£95.00
AX-LSPTD-I-4	Range 0 to 4 bar	£95.00
AX-LSPTD-I-6	Range 0 to 6 bar	£95.00
AX-LSPTD-I-10	Range 0 to 10 bar	£95.00
AX-LSPTD-I-16	Range 0 to 16 bar	£95.00
AX-LSPTD-I-25	Range 0 to 25 bar	£95.00
AX-LSPTD-I-40	Range 0 to 40 bar	£95.00
Order Codes:	Voltage Output 0-10Vdc - 3 wire	List Price
AX-LSPTD-V-2.5	Range 0 to 2.5 bar	£95.00

Older Codes.	Voltage Output 0-10 vuc - 3 wife	LIST FILE
AX-LSPTD-V-2.5	Range 0 to 2.5 bar	£95.00
AX-LSPTD-V-4	Range 0 to 4 bar	£95.00
AX-LSPTD-V-6	Range 0 to 6 bar	£95.00
AX-LSPTD-V-10	Range 0 to 10 bar	£95.00
AX-LSPTD-V-16	Range 0 to 16 bar	£95.00
AX-LSPTD-V-25	Range 0 to 25 bar	£95.00
AX-LSPTD-V-40	Range 0 to 40 bar	£95.00

Features:

- Robust stainless steel construction
- . Male 1/4" BSP connection
- . Complete with DIN plug connector

Specifications:

Power Supply:		14-30Vdc	
Pressure Range:		1 bar to 600 bar	
Output:		-1	4-20mA
		-V	0-10Vdc
Operating Temperature:		Ambient	0 to +80°C
		Fluid	0 to +100 ^o C

Note: Large Pressure Ranges available. Contact the sales office for details.

Millibar Static Pressure Transmitters



AX-LSPT-mB

A range of highly accurate Pressure Transmitters designed for sensing ranges below 1 bar. Units are available with either a 0-10Vdc or 4-20mA output. These units are suitable for air, gas and liquids.

Order Codes:	Current Output 4-20mA	List Price
AX-LSPT-I-25mB	Range 0 to 25 mbar	£315.00
AX-LSPT-I-40mB	Range 0 to 40 mbar	£315.00
AX-LSPT-I-60mB	Range 0 to 60 mbar	£280.00
AX-LSPT-I-100mB	Range 0 to 100 mbar	£155.00
AX-LSPT-I-160mB	Range 0 to 160 mbar	£155.00
AX-LSPT-I-250mB	Range 0 to 250 mbar	£155.00
AX-LSPT-I-400mB	Range 0 to 400 mbar	£155.00
AX-LSPT-I-600mB	Range 0 to 600 mbar	£155.00

Order Codes:	Voltage output 0-10Vdc	List Price
AX-LSPT-V-25mB	Range 0 to 25 mbar	£320.00
AX-LSPT-V-40mB	Range 0 to 40 mbar	£320.00
AX-LSPT-V-60mB	Range 0 to 60 mbar	£290.00
AX-LSPT-V-100mB	Range 0 to 100 mbar	£155.00
AX-LSPT-V-160mB	Range 0 to 160 mbar	£155.00
AX-LSPT-V-250mB	Range 0 to 250 mbar	£155.00
AX-LSPT-V-400mB	Range 0 to 400 mbar	£155.00
AX-LSPT-V-600mB	Range 0 to 600 mbar	£155.00

Features:

- . Robust stainless steel construction
- Male 1/2" BSP connection
- . Complete with DIN plug connector

Specifications:

Power Supply:	Current Output	14-40Vdc
	Voltage Output	11-40Vdc
Operating Temperature:	Ambient	-25 to +85°C
	Fluid	-25 to +100°C



Liquid Pressure Switches

Liquid Static Pressure Switches

AX-LSPS1381-x

These Pressure Switches have an adjustable switching threshold and either a fixed or adjustable differential. Normally used to switch an alarm or warning light, cutting off the supply to a pump.



Order Codes:		List Price
AX-LSPS1381-1	Fixed reset differential 0.1 to 1 bar	£77.00
AX-LSPS1381-4	Fixed reset differential 0.2 to 4 bar	£77.00
AX-LSPS1381-11	Fixed reset differential 0.5 to 11 bar	£77.00
AX-LSPS1381-28	Fixed reset differential 2 to 28 bar	£77.00
AX-LSPS1381-40	Fixed rest differential 2 to 40 bar	£77.00
AX-LSPS1381-1V	Adjustable differential 0.1 to 1 bar	£117.00
AX-LSPS1381-4V	Adjustable differential 0.2 to 4 bar	£117.00
AX-LSPS1381-11V	Adjustable differential 0.5 to 11 bar	£117.00
AX-LSPS1381-28V	Adjustable differential 2 to 28 bar	£117.00
AX-LSPS1381-40V	Adjustable differential 2 to 40 bar	£117.00

Features:

- Cost effective solution
- Suitable for use with main voltage
- . Fixed or adjustable differential (hysteresis)

Specifications:

Range:	AX-LSPS1381-1		0.1 to 1 bar	
	AX-LSPS1381-4		0.2 to 4 bar	
	AX-LSPS13	81-11	0.5 to 11 bar	
	AX-LSPS13	881-28	2 to 28 bar	
	AX-LSPS13	881-40	2 to 42 bar	
Fixed Differential:	AX-LSPS1	381-1	0.04 bar	
	AX-LSPS1	381-4	0.07 bar	
	AX-LSPS13	81-11	0.3 bar	
	AX-LSPS13	881-28	0.6 bar	
	AX-LSPS1381-40		0.8 bar	
Materials:	Pressure Ch	namber	Brass	
	Diaphragm		Beryllium copper	
	Sealing Gasket		< 11 Bar PTFE, > 11 Bar Nitrile rubber	
	Housin	ıg	Aluminium/Diecast Zinc	
	Lid		Glass filled nylon	
	Mounting B	racket	Zinc plated steel bracket	
Pressure Connect	ion:	1/2" BSI	P Male	
Contact Rating:		10A @ 2	10A @ 250Vac (Ind)	
Protection:		IP65		
Fluid Temperature:		-10 to +85°C		
Dimensions:		92 x 105 x 77mm		
Weight:		760g		

Liquid Static Pressure Switches

AX-LSPS-PS

Cost effective Static Pressure devices capable of direct switching of 240V loads. Normal applications are monitoring of pumps, chillers, valves etc.



Tel: +44 (0)1420 487788

Order Codes:		List Price
AX-LSPS-PS1-1	Liquid Pressure Switch -0.75 to 3 bar	£32.00
AX-LSPS-PS1-3	Liquid Pressure Switch -0.5 to 7 bar	£32.00

Features:

- Cost effective solution
- Adjustable pressure range High rated SPDT contacts

- Suitable for use with mains voltage
- . Adjustable differential

Specifications:

		Range	Differential
AX-LSPS-PS1-1	-(0.75 to 3 bar	0.25 to 1.5 bar
AX-LSPS-PS1-3	-	0.5 to 7 bar	0.5 to 5 bar
Pressure Connection	n: 1/4" BSP Male		
Contact Rating:	24A @ 230Vac (r		es) (10A ind)
Protection:	IP44		
Ambient Range:	-50 to +70°C		
Fluid Temperature:	ure: -50 to +170°C		
Dimensions: 42 x 85		42 x 85 x 75mm	
Weight:	350g		



Liquid Differential Pressure Switches

Liquid Differential Pressure Switches

AX-LDPS1382/1482

A very high quality Differential Pressure devices capable of direct switching of 240Vac loads. Cost effective solution for filter dirty, flow proving and flow failure detection.



Order Codes:		List Price
AX-LDPS1382-1	Range 0.07 to 1 bar	£121.00
AX-LDPS1382-4	Range 0.2 to 4 bar	£121.00
AX-LDPS1382-11	Range 0.5 to 11 bar	£121.00
AX-LDPS1382-28	Range 2 to 28 bar	£121.00
AX-LDPS1482-125	Range 5 to 125 mbar	£121.00
AX-LDPS1482-250	Range 15 to 250 mbar	£121.00
AX-LDPS1482-400	Range 25 to 400 mbar	£121.00

Features:

- Robust stainless steel construction
- Female BSP connection
- . Suitable for water, oil, steam or air . Complete with DIN plug connector

Specifications:

	Pı	essure Ran	ge	Hysteresis
AX-LDPS1382-1		0.07 to 1 bar	ſ	0.04 bar
AX-LDPS1382-4		0.2 to 4 bar		0.07 bar
AX-LDPS1382-11		0.5 to 11 bai	r	0.3 bar
AX-LDPS1382-28		2.0 to 28 bar	r	0.6 bar
AX-LDPS1482-125	5	to 125 mba	ır	2.5 mbar
AX-LDPS1482-250	1	5 to 250 mba	ar	4 mbar
AX-LDPS1482-400	2	5 to 400 mb	ar	10 mbar
Max. Line Pressure:	T:	>250 mbar	34 l	oar max
		<125 mbar	14 l	oar max
Out of Balance Pressu	ıre:	4 x pressu	re ra	inge
Pressure Connections	s :	1/8" BSP f	1/8" BSP female Brass	
Switch Rating:			10A @ 250Vac inductive 1A @ 30Vdc inductive	
Media Temperature:		-10 to +85	-10 to +85°C	
Protection:		IP65		

Liquid Differential Pressure Switch

AX-LDPS-FD113

Differential Pressure Switch capable of direct switching of 240V loads. Cost effective solution for both flow proving and flow failure detection. The unit has an adjustable setpoint and differential and has a scale to show the setpoint.



Tel: +44 (0)1420 487788

Order Codes:		List Price
AX-LDPS-FD113	Range 0.3 to 4.5 bar	£44.00

Features:

- Cost effective solution
- Suitable for use with mains voltage
- . Adjustable setpoint and differential

Specifications:

Contact Rating:	3A @ 250Vac (res)
Contact Type:	SPDT
Pressure Connection:	1/4" BSP female
Range:	0.3 to 4.5 bar
Differential:	0.2 bar
Max Operating Pressure	12 bar
Protection:	IP30
Operating Temperature:	-10 to +70°C

Note: There are price reductions on orders for boxes of 20 on this product. Ask the sales office for details.

Pressure Products

Liquid Differential Pressure Transmitters

AX-LDPT482-xx

A range of highly accurate Differential Pressure Transmitters available with either a 0-10Vdc or 4-20mA output. Rugged construction for demanding applications.

Features:

- . 1/8" BSP female connections
- . Complete with 1m of cable



Order Codes:	Voltage Output	List Price
AX-LDPT482V-160	Range 0 to 160 mbar	£185.00
AX-LDPT482V-400	Range 0 to 400 mbar	£185.00
AX-LDPT482V-1	Range 0 to 1 bar	£185.00
AX-LDPT482V-2	Range 0 to 2 bar	£185.00
AX-LDPT482V-4	Range 0 to 4 bar	£185.00
AX-LDPT482V-7	Range 0 to 7 bar	£185.00
AX-LDPT482V-10	Range 0 to 10 bar	£185.00
AX-LDPT482V-16	Range 0 to 16 bar	£185.00

Order Codes:	Current Output	List Price
AX-LDPT482I-160	Range 0 to 160 mbar	£185.00
AX-LDPT482I-400	Range 0 to 400 mbar	£185.00
AX-LDPT482I-1	Range 0 to 1 bar	£185.00
AX-LDPT482I-2	Range 0 to 2 bar	£185.00
AX-LDPT482I-4	Range 0 to 4 bar	£185.00
AX-LDPT482I-7	Range 0 to 7 bar	£185.00
AX-LDPT482I-10	Range 0 to 10 bar	£185.00
AX-LDPT482I-16	Range 0 to 16 bar	£185.00

Specifications:

Power Supply:	Current Output		12-24Vdc
	Vo	Itage Output	24Vac/dc +/- 15%
Output:	4-20mA - 2 w		ire. 0-10Vdc - 3 wire
Protection:		IP65	
Operating Temperature:		-20 to +80°C	

Room Differential Pressure Monitors

Tel: +44 (0)1420 487788

AX-RDPM-xx

AX-RDPM Room Differential Pressure Monitors are used to measure differential pressure in the range of +/- 30 to 250 Pa. They feature an LCD to display the pressure values and have an optional alarm output with variable trip point, a remote buzzer output with silence switch and a flashing alarm LED.

Features:

- . 1/8" BSP female connections
- . LCD Indication

Order Codes:		List Price
AX-RDPM05	Pressure Monitor +/- 250 Pa	£395.00
AX-RDPM06	Pressure Monitor +/- 125 Pa	£395.00
AX-RDPM07	Pressure Monitor +/- 60 Pa	£395.00
AX-RDPM08	Pressure Monitor +/- 30 Pa	£395.00
-LC	LCD display	£10.00
-A	Alarm functions, silence switch, buzzer out, relay out & setpoint control	£10.00
-SP	Stainless pick up port	£22.00
-AE	Executive pick up port	£22.00

Specifications:

Power Supply:	15 to 27Vac or 20 to 35Vdc
Thermal Effects:	<+/- 3.5% over compensated range
Accuracy:	+/- 1 % F.O. (+/- 2% for 30 Pa ranges)
Output:	0-5, 0-10Vedc or 4-20mA
Response Time:	0.5 secs
Zero Adjustment:	Push button auto-zero
Relay Output:	N.O. Contact 2.5A @ 120Vac or 30Vdc
Relay Trip Point:	Adjustable from zero to span
Relay Delay:	5 seconds on / 5 seconds off



POWER MONITORING AND METERING

Power Supplies

DIN Rail Mounted 230Vac to 24Vac Transformers



AX-TX-Dx

A range of encapsulated DIN rail mounted 230Vac to 24Vac Transformers suitable for a wide range of applications. The input and output are both fused.

Order Codes:		List Price
AX-TX-D1.8	DIN Rail Transformer 1.8VA	£12.00
AX-TX-D6	DIN Rail Transformer 6VA	£20.00
AX-TX-D25	DIN Rail Transformer 25VA	£28.00

Features

- . Terminal connectors
- . Rating from 1.8VA to 25VA
- . DIN rail mounted encapsulated transformer

Specifications:

Input:	220/240Vac +/- 5%
Output:	24Vac +/- 10%
Electrical Connections:	Terminals for 0.5 to 2.5mm ² cable
Ambient Range:	-10 to +50°C, 0-95% RH
Compliance:	EN 60742 / VDE 0551

230Vac to 24Vac Transformers



ΔX-TX-xx

A range of Panel Mounted 230Vac to 24Vac Transformers suitable for a wide range of applications.

Order Codes:		List Price
AX-TX-25	230Vac to 24Vac Transformer 25VA	£24.00
AX-TX-50	230Vac to 24Vac Transformer 50VA	£27.00
AX-TX-100	230Vac to 24Vac Transformer 100VA	£36.00
AX-TX-150	230Vac to 24Vac Transformer 150VA	£45.00
AX-TX-200	230Vac to 24Vac Transformer 200VA	£55.00

Features

- . Spade earth connector
- . Welded earth terminal
- . Rating from 25VA to 200VA

Specifications:

Input:	220/240Vac +/- 5%
Output:	24Vac +/- 10%
Electrical Connections:	Terminals for 0.5 to 2.5mm ² cable
Ambient Range:	-10 to +50°C, 0-95% RH
Compliance:	EN 60742 / VDE 0551
Isolated to:	T40/B
Country of Origin:	U.K

Power Supply - 24Vac to 24Vdc



A range of DIN rail mounted 24Vac to 24Vdc Power Supplies suitable for a wide range of applications. Variants are available with different secondary side grounding.

|--|

Order Codes:		List Price
AX-PS-24-24-1C	24Vdc 1A Power Supply, common 0V	£20.00
AX-PS-24-24-1F	24Vdc 1A Power Supply, floating 0V	£20.00

Features:

- . Regulated 24Vdc output at 1A
- . Integrated short-circuit protection
- . LED Status indication

Specifications:

Input:	24Vac +/- 15%
Input Fuse:	630mA @ 250Vac
Output:	24Vdc +/- 10%
Output Fuse:	1A
Ambient Range:	0 to 50°C

Power Supply - 230Vac to 24Vdc



AX-PS-230-24

A DIN rail or enclosure mounted 240Vac to 24Vdc Power Supply suitable for a wide range of applications including providing dc power to Axio IO Modules.

Order Codes:		List Price
AX-PS-230-24	24Vdc 1.0A Power Supply - DIN	£36.00
AX-PS-230-24E	24Vdc 1.0A Power Supply - Mounted in a ventilated metal enclosure	£56.00

Features

- . Integrated short-circuit protection
- . LED Status indication

Specifications

Input:	24Vac +/- 15%
Input Fuse:	630mA @ 250Vac
Output:	24Vdc +/- 10%
Output Fuse:	1A
Ambient Range:	0 to 50°C



POWER MONITORING AND METERING

kWh Meters

kWh Meter - DIN

The AX-KWH-Ri3 kWh Meter is a compact DIN rail mounted design. These are CT operated for both single and three phase supply. The units give both a pulse output and modbus to the BMS.



Order Codes:		List Price
AX-KWH-Ri3	Ri3 DIN rail kWh Meter c/w pulse & modbus o/p	£115.00

- Three line LCD display
- Single or 3 phase
 Pulse and Modbus output to BMS
- . CT operated . DIN rail mounting

Specifications:

Power Supply:	100 to 289Vac L-N
	175 to 500Vac L-L
Frequency Range:	45 to 66Hz
Input Current:	5Amps
Max Current:	6Amps
LCD Display:	3 line LCD
CT Range:	1 to 9999A
Pulse Output:	1 per 0.1kWh
Pulse Rating:	Solid state relay 50mA @ 250Vac
RS485 Output:	Modbus 2 - wire half duplex or Johnson Controls Metasys - selectable
Baud Rate:	2400, 4800, 9600, 19200, 38400
Dimensions:	72 x 90mm as per DIN 43880
Protection:	IP52 (case IP30)
Ambient Temp. Range:	-10 to +45°C, 0-95% RH

kWh Meters - Panel

AX-KWH-Cx

The AX-KWH-Cx range of kWh Meters is a compact panel mounted design. These are CT operated for both single and three phase supply. The units give a pulse output to the BMS (modbus options).



Tel: +44 (0)1420 487788

Order Codes:		List Price
AX-KWH-Ci1-P	Ci1 Panel kWh Meter c/w pulse o/p	£88.00
AX-KWH-Ci1-MOD	Ci1 Panel kWh Meter c/w 485 o/p	£115.00
AX-KWH-Ci3-P	Ci3 Panel kWh Meter c/w pulse o/p	£90.00
AX-KWH-Ci3-MOD	Ci3 Panel kWh Meter c/w 485 o/p	£120.00

Features:

- Single & 3 line display variants
- . Single or 3 phase
- . Pulse output to BMS (modbus option)
- CT operated
- . Panel mounting

Specifications:

Power Supply:	100 to 289Vac L-N
	175 to 500Vac L-L
Frequency Range:	45 to 66Hz
Input Current:	5Amps
Max Current:	6Amps
LCD Display:	Ci1 - 1 line LCD
	Ci3 - 3 line LCD
CT Range:	1 to 9999A
Pulse Output: -P	1 per 0.1kWh
Pulse Rating:	Solid state relay 50mA @ 250Vac (2 max)
RS485 Output: -MOD	Modbus 2 - wire half duplex or Johnson Controls Metasys - selectable
Baud Rate:	2400, 4800, 9600, 19200, 38400
Dimensions:	96 x 96 x 64.1mm
Protection:	IP52 (case IP30)
Ambient Temp Range:	-10 to +45°C, 0-95% RH

Note: 2 pulse output variants available at extra cost (PUL-02) Or 1 x pulse & 1 x 485 at extra cost (PUL-485)



GAS & SMOKE DETECTION

Gas Leak, Smoke & Gas Sensors

Smoke Detectors

AX-GS-SD-xxx

Approved Smoke Detectors are designed for use in ducts and give a relay output to fans or BMS.



Order Codes:		List Price
AX-GS-SD2000-N	Duct Smoke Detector with ionisation sensor	£120.00
AX-GS-SD2000-P	Duct Smoke Detector with photoelectric sensor	£120.00
AX-GS-SD-STN1	Sampling tube 30 to 60cm	£8.00
AX-GS-SD-STN2.5	Sampling tube 60 to 120mm	£9.00
AX-GS-SD-STN5	Sampling tube 120 x 240mm	£11.00
AX-GS-SD-STN10	Sampling tube 240 x 360mm	£16.00
AY GS SD ET	Sampling tube modular	£13.00

Features:

- . 24Vac/dc or 240Vac operation
- Photoelectric or ionisation sensor
- . Two sets of 5A alarm outputs

Specifications:

Power Supply:	24Vac/dc, 120Vac, 240Vac
Sensor: -N	4 wire Ionisation
Sensor: -P	4 wire Photoelectric
Output:	2 x SPCO relay
Contact Rating: Alarm	2 x 5A @ 250Vac (res)
Contact Rating: Trouble	1 x 5A @ 250Vac (res)
Ambient Range: -N	0 to 70°C
Ambient Range: -P	0 to 60°C
Protection:	IP54

Gas Leak Detection System

AX-GLD-P82

The AX-GLD-P82 Gas Leak Detection range is suitable for use in boiler rooms and other commercial applications to provide safety and shut down facilities in the event of gas leakage. The units come complete with output relays to operate auxiliary devices such as gas solenoid valves or sirens.



Order Codes:		List Price
AX-GLD-P82	Four channel gas leak alarm control unit - DIN	£380.00
AX-GS-S81	LNG Sensor (methane)	£95.00
AX-GS-S82	LPG Sensor (propane)	£95.00
AX-GS-S83	Carbon Monoxide Sensor	£110.00

Features:

- . Up to 4 channels
- . Adjustable sensitivity
- . Relay output for gas valves or alarms
- . Audio and visual alarms

Specifications:

Power Supply:	12Vdc +/- 10% or 230Vac
Power Consumption:	280mA typical (max 920mA inrush)
Relay Type:	SPDT
Relay Contact Rating:	2 x 8A @ 250Vac (res) (1A ind)
Audible Alarm:	Approx 60db
Ambient Range:	-10 to +50°C



GAS & SMOKE DETECTION

Carbon Dioxide Sensors

Carbon Dioxide, Temperature & RH Sensors



AX-GS-CD-T81

These Combined Carbon Dioxide Temperature and RH Sensors are easy to install and maintain. The units can output the 3 parameters as either linear 4-20mA or 0-10V signals with option of thermistor temperature output. The units have a lifetime calibration interval.

Order Codes:		List Price
AX-GS-CD-T81-E	Space CO2 Sensor & Thermistor temp o/p	£175.00
AX-GS-CD-T81-ED	Space CO2 Sensor & Temperature temp o/p + LCD	£183.00
AX-GS-CD-T81-EH	Space RH, Temp & CO2 sensor analogue o/p	£202.00
AX-GS-CD-T81-EHD	Space RH, Temp & CO2 sensor analogue o/p + LCD	£212.00
-В	Bacnet MS/TP Version	Add £15.00
-BAC	Bacnet enabled - MSTP/IP	Add £25.00

Features:

- . Optional LCD with PPM indication
- . ABC self-calibration logic
- . Optional RH and analogue temperature outputs
- . Attractive high quality enclosure
- . Scaleable to different ranges

	ions

Power Supply:	18 to 30Vac/dc
Output: T81	3 x 0-10Vdc or 4-20mA
	Thermistor Temperature option
CO2 Sensor Type:	Non-dispersive Infra-red
Range:	0-2000ppm standard
Calibration Interval:	Lifetime
Temperature Range:	0-50°C
RH Sensor Type:	Thermoset Polymer Based Capacitive
RH Accuracy:	+/- 2.5% RH

Duct Carbon Dioxide Sensors



AX-GS-CD-Dxx

These Duct Carbon Dioxide and Temperature Sensors are easy to install and maintain. The units can output the CO2 as a 0-10V signal with the option of thermistor temperature output. The units have a lifetime calibration interval.

Order Codes:		List Price
AX-GS-CD-D8041	Duct CO2 sensor 0-10V o/p. Probe 10.46mm	£178.00
AX-GS-CD-D8041-T	Duct CO2 sensor o/p. Probe 10.46mm - Thermistor	£188.00
AX-GS-CD-D8042	Duct CO2 sensor 0-10V o/p. Probe 20.32mm	£183.00
AX-GS-CD-D8042-T	Duct CO2 sensor 0-10V o/p. Probe 20.32mm - Thermistor	£193.00

Features:

- . ABC self-calibration logic
- Two probe lengths available
- . Ships with mounting screws
- . Thermistor output available

Specifications:

18 to 30Vac/dc
1 x 0-10Vdc
1 x Thermistor Temperature option
Non-dispersive Infra-red
0-2000ppm standard
Lifetime
0-50 ^o C
Thermoset Polymer Based Capacitive
+/- 2.5% RH

Carbon Dioxide Sensors

Tel: +44 (0)1420 487788



AX-GS-CD-T51-E

The AX-GS-CD-T51-E range is a cost effective wall mounted CO2 and optional temperature sensor. The unit has the option of a multi-coloured LED indicator of CO2 thresholds to display air quality in enclosed spaces (i.e. school classrooms, offices, gymnasiums, theatres etc.). The unit comes complete with "Automatic Background Calibration" software to reduce drift to better than +/-20ppm/year

Order Codes:		List Price
AX-GS-CD-T51-EV	Room CO2 sensor 1 x 0-10Vdc	£145.00
AX-GS-CD-T51-EVT	Room CO2 & Temperature sensor 1 x 0- 10Vdc	£153.00
AX-GS-CD-T51-EI	Room CO2 sensor 1 x 4-20mA	£145.00
	Room CO2 & Temperature sensor 1 x 4- 20mA	£153.00
AX-GS-CD-T51-EL	Room CO2 & Temperature sensor 2 x AO & LED	£155.00

Features:

- . ABC self-calibration logic
- L version features 5 LED indication
- . Ships with mounting screws
- . Thermistor output available

Specifications:

Power Supply:	18 to 30Vac or 18 to 42Vdc
Nominal Measurement Range:	0-2000ppm
Output:	4-20mA or 0-5/10Vdc
	Thermistor temperature option
LED (option):	6 LED indication of level
Calibration Interval:	Not required
Ambient Range:	0 to 50°C, 0-95% RH



GAS & SMOKE DETECTION

Carbon Dioxide Sensors

Carbon Dioxide Switches

AX-GS-CD-ST8013

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The AX-GS-CD-ST8013 is a cost effective wall mounted CO2 switch for ventilation control. The unit incorporates an intuitive Visual Level Indicator display for CO2 thresholds to maintain air quality in enclosed spaces (i.e. school classrooms, offices, gymnasiums, theatres etc.).

Order Codes:		List Price
AX-GS-CD-T8013	Room Carbon Dioxide Switch	£170.00

Features:

- . High accuracy and stability
- . Intuitive 6 LED display
- . 15 year recommended calibration interval

Specifications:

Power Supply:	85Vac to 265Vac
Nominal Measurement Range:	600-2000ppm
Consumption:	< 1.5W
Output:	SPDT 8A resistive @ 230Vac
Calibration Interval:	Not required
Ambient Range:	0 to 50°C, 0-95% RH

Air Quality & Carbon Monoxide Sensors

Carbon Monoxide Sensors



AX-GS-CM-xxx

Carbon Monoxide Sensors designed for use in car parks and other non-ventilated areas. The units are of rugged construction and offer an analogue output of the gas concentration.

Order Codes:		List Price
AX-GS-CM-V	Wall mounted Carbon Monoxide Sensor	£95.00
AX-GS-CM-VR	Wall mounted Carbon Monoxide Sensor c/w relay	£110.00

Features

- . High accuracy and stability
- . 3 year recommended calibration interval
- . Optional relay with wide selection of ppm level switchpoint

Specifications:

Power Supply:	24Vac/dc @ 100mA max +/- 10%
Long Term Stability:	< 5% signal loss/year
Accuracy:	+/-10% of FSD
Monitoring Range:	0 to 300ppm
Sensor Type:	Electrochemical
Output:	0-5/10Vdc (optional relay)
Relay Output (option):	SPCO 5A @ 250Vac (res)
Ambient Range:	0 to 50 ^o C

Air Quality Sensors



AX-GS-AQ-x

Air Quality Sensors are designed to help optimise the quantity of fresh air introduced into a building for ventilation purposes. The sensors are sensitive to a range of odours.

Features:

- . High accuracy and stability
- . 2 year recommended calibration interval
- . Combines all pollutants to give a mixed gas concentration
- . Stepped, analogue and relay outputs



Order Codes:		List Price
AX-GS-AQ300AE	Room AQ Sensor stepped o/p	£132.00
AX-GS-AQ300AE-R	Room AQ Sensor stepped and relay o/p	£180.00
AX-GS-AQ300AE-A	Room AQ Sensor analogue o/p	£148.00
AX-GS-AQ300AE-AR	Room AQ Sensor analogue and relay o/p	£195.00
AX-GS-AQ300D	Duct AQ Sensor stepped o/p	£148.00
AX-GS-AQ300D-R	Duct AQ Sensor stepped and relay o/p	£215.00
AX-GS-AQ300D-A	Duct AQ Sensor analogue o/p	£160.00
AX-GS-AQ300D-AR	Duct AQ Sensor analogue and relay o/p	£225.00
AX-GS-AQ300D-A	Duct AQ Sensor analogue o/p	£160.00

Specifications:

Power Supply:	20 to 30Vac/dc
Sensor Type:	Tin dioxide film
Output (standard):	Stepped 0-10Vdc (4 steps)
Output (optional):	Linear analogue 4-20mA or 0-10Vdc
Output (optional):	Relay 5A @ 250Vac (res)



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