

## Submersible Hydrostatic Level Transmitter

### Product Overview

The AX-HL Submersible Hydrostatic Level Transmitters are designed to be submerged directly in the liquid to be measured, and positioned as close as possible to the bottom and measures the hydrostatic pressure, which enables a direct conclusion regarding the current level. These units measure the height of liquid above the position in the tank, referenced to atmospheric pressure. The AX-HL is ideal for tanks, wells, storage tanks, water towers, dams and gauging stations .



### Products Features

- Slim design for tight applications
- Available with vent filter
- Encased in 316 Stainless Steel Housing
- Built-in atmospheric pressure compensation
- Mounted through the top of a tank
- Anti Waving & Anti Interference

### Product Specifications

Power supply:	12-30VDC
Output signal:	4-20mA/0-10V
Load impedance :	4-20mA units :900Ohms max at 30VDC supply 0-10V units :10KOhms min
Sensor type:	Piezo-resistive silicon
Accuracy:	0.25%-0.5%F.S
Overload:	150%F.S
Medium temperature:	0-60°C
Operating temperature:	-30-80°C
Stability:	≤0.1%F.S./year
Ingress protection:	IP68
Materials:	Probe 316 SS Cable PVC Shielded Cable (PTFE Cable optional, See order code )
Country of origin:	United Kingdom

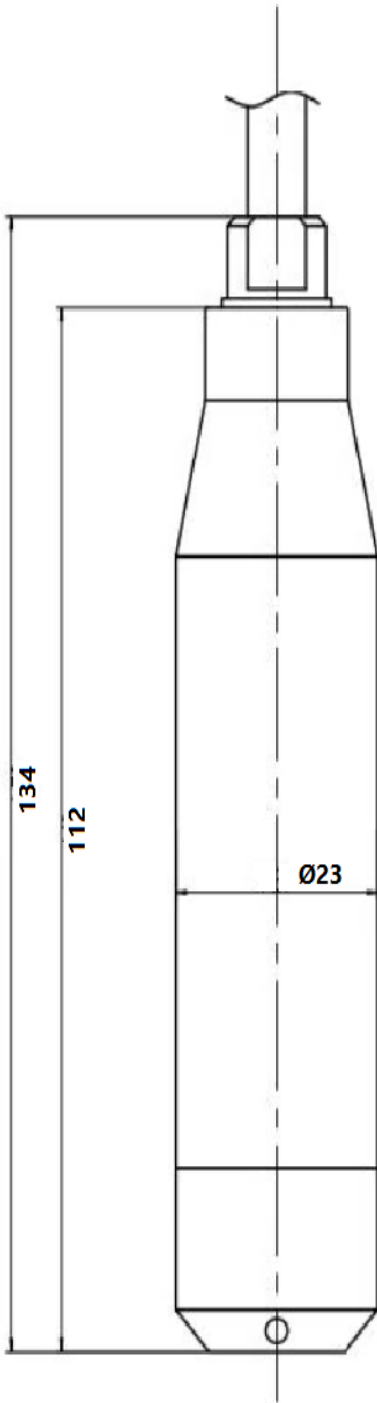
### Product Order Codes

4-20mA output versions		0-10V output versions	
Part number	Description	Part number	Description
AX-HL-5M10	5M Range 10 meter Cable	AX-HL-V-5M10	5M Range 10 meter Cable
AX-HL-3.5M8	3.5M Range 8 meter Cable	AX-HL-V-3.5M8	3.5M Range 8 meter Cable
AX-HL-2.2M6	2.2M Range 6 meter Cable	AX-HL-V-3.5M10	3.5M Range 10 meter Cable
AX-HL-3.5M10	3.5M Range 10 meter Cable	AX-HL-V-2.2M6	2.2M Range 6 meter Cable
AX-HL-10M18	10M Range 18 meter Cable	AX-HL-V-10M18	10M Range 18 meter Cable
AX-HL-10M15	10M Range 15 meter Cable	AX-HL-V-10M15	10M Range 15 meter Cable

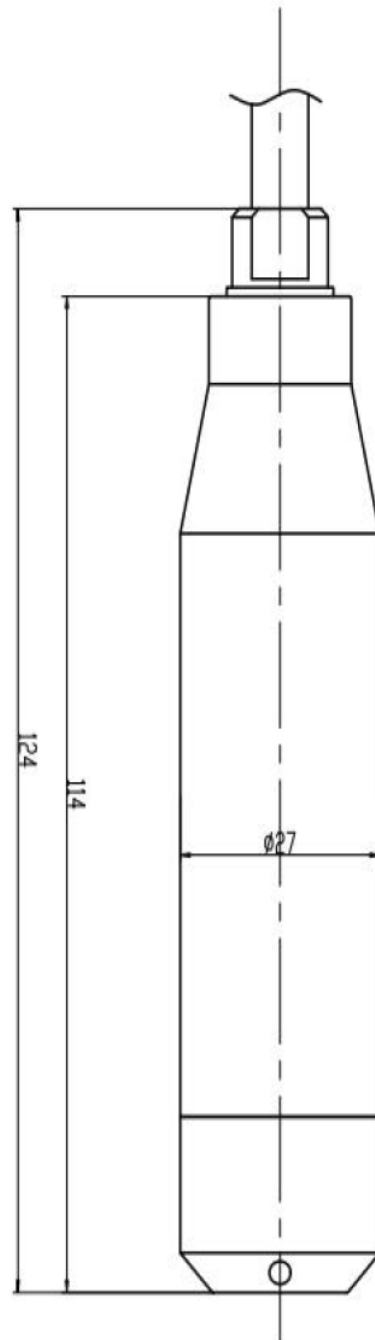
\*\* Use "AX-HL-WF" for Waste Water Filter

\*\* Add "P" after HL for PTFE Cable. i.e. AX-HLP-10M15

### Dimensions



\*Voltage Version  
\*Dimensions in mm



\*Current Version  
\*Dimensions in mm

### Installation

The AX-HL series of submersible level transmitters should be installed by a suitably qualified technician in accordance with any guidelines for the device and the equipment which it is to be connected to. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment being connected to. As a general rule screened cable should be used to connect signal to a BMS or other controller.

### Electrolytic Corrosion

A voltage potential between the ground wire of the unit and the ground of other equipment can lead to electrolytic corrosion. Always ensure the grounding system provides an equipotential between the transmitter and the earthing ground connection.

Avoid using the power system protective ground as this will often have a significant potential difference to the transmitter ground.

Dissimilar metals in the ground system may cause electrolysis corrosion of the transmitter or other components in the ground system.

During installation, connect a voltmeter or ammeter between the shield ground wire and the grounding connection. If there is a measurable voltage or current electrolytic corrosion may be a serious possibility. If there is a potential difference then some isolation system will be required. Improper grounding may lead to damage or poor signal integrity.

### Electrical Connections

Electrical connections are made as follows.

#### Current (2-wire ) output:

Red	: Supply (+) 12 to 30Vdc
Yellow	: 4-20mA Output
Shield	: Earth

#### Voltage (0-10V) output:

Red	: Supply (+) 24Vdc
Blue	: 0-10Vdc Output
Yellow	: Common
Shield	: Earth

### Datasheet Contents

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