

HLT

Hydrostatic Level Transmitters



Product Overview:

The HLT Hydrostatic Level Sensor from S&S Middle East is expertly designed to measure clean or contaminated water levels, offering a reliable alternative to ultrasonic sensors.

Available variants include 4-20mA and 0-10Vdc outputs, with Intrinsically Safe options for added safety. An optional temperature output further enhances its functionality. Installation is quick and straightforward, thanks to the included cable clamp and terminal, which securely hold the wire in place.

To ensure durability, the sensor features a breathing capillary tube and a filtered terminal block, allowing atmospheric pressure to reach the unit while protecting the electronics from moisture damage. With options available for depths of up to 200 meters (ideal for boreholes, reservoirs, and similar applications), these sensors are customized to suit specific project requirements.

Features:

- Compatible with both clean and contaminated water
- A superior alternative to ultrasonic sensors
- Quick and hassle-free installation
- Supplied with a cable clamp and terminal for easy setup
- Available in 4-20mA, 0-10Vdc, and Intrinsically Safe versions
- Optional temperature output for enhanced functionality

Applications:

- Measures level and temperature in drinking water wells, tanks, and pools
- Controls submersible pumps efficiently
- Suitable for clean and lightly contaminated liquids
- Designed for use with sewage water systems
- Offers reliable draw-down protection
- Perfect for managing sewage lift stations

Partcodes

Partcode	Full Description	Water Type	Tank Height	Cable Length	Output
HLT-1C-I5	Hydrostatic Level Sensor - 5 metre Polyurethane Cable, 2-Wire	Clean	0-1m	5m	4-20mA & Hart
HLT-2C-I5	Hydrostatic Level Sensor - 5 metre Polyurethane Cable, 2-Wire	Clean	0-2m	5m	4-20mA & Hart
HLT-5C-I10	Hydrostatic Level Sensor - 10 metre Polyurethane Cable, 2-Wire	Clean	0-5m	10m	4-20mA & Hart
HLT-10C-I15	Hydrostatic Level Sensor - 15 metre Polyurethane Cable, 2-Wire	Clean	0-10m	15m	4-20mA & Hart
HLT-1C-V5	Hydrostatic Level Sensor - 5 metre Polyurethane Cable, 3-Wire	Clean	0-1m	5m	0-10VDC
HLT-2C-V5	Hydrostatic Level Sensor - 5 metre Polyurethane Cable, 3-Wire	Clean	0-2m	5m	0-10VDC
HLT-5C-V10	Hydrostatic Level Sensor - 5 metre Polyurethane Cable, 3-Wire	Clean	0-5m	10m	0-10VDC
HLT-10C-V15	Hydrostatic Level Sensor - 5 metre Polyurethane Cable, 3-Wire	Clean	0-10m	15m	0-10VDC
-XX	Specify Custom Cable Length, Price per Meter	Clean	-	-	-
-A	Intrinsically Safe Version	Clean	-	-	-
-T	4-20mA Temperature Output, 4-20mA (I) versions	Clean	-	-	-
HLT-1W-I5	Hydrostatic Level Sensor - 5 metre FEP Cable, 2-Wire	Waste	0-1m	5m	4-20mA & Hart
HLT-2W-I5	Hydrostatic Level Sensor - 5 metre FEP Cable, 2-Wire	Waste	0-2m	5m	4-20mA & Hart
HLT-5W-I10	Hydrostatic Level Sensor - 10 metre FEP Cable, 2-Wire	Waste	0-5m	10m	4-20mA & Hart
HLT-10W-I15	Hydrostatic Level Sensor - 15 metre FEP Cable, 2-Wire	Waste	0-10m	15m	4-20mA & Hart
HLT-1W-V5	Hydrostatic Level Sensor - 5 metre FEP Cable, 3-Wire	Waste	0-1m	5m	0-10VDC
HLT-2W-V5	Hydrostatic Level Sensor - 5 metre FEP Cable, 3-Wire	Waste	0-2m	5m	0-10VDC
HLT-5W-V10	Hydrostatic Level Sensor - 10 metre FEP Cable, 3-Wire	Waste	0-5m	10m	0-10VDC
HLT-10W-V15	Hydrostatic Level Sensor - 15 metre FEP Cable, 3-Wire	Waste	0-10m	15m	0-10VDC
-XX	Specify Custom Cable Length, Price per Meter	Waste	-	-	-
-A	Intrinsically Safe Version	Waste	-	-	-
-T	4-20mA Temperature Output, 4-20mA (I) versions	Waste	-	-	-

Technical Specifications:

Measuring/Cable Range:	1m to 200m
Linearity:	+/- 0.45%
Process Temperature:	-10°C to +60°C
Power Supply:	(4-20mA Version) 12 to 30Vdc (0-10Vdc Version) 18 to 30Vdc
Outputs:	2-wire 4-20mA & Hart 3-wire 0-10Vdc
Intrinsically Safe Class (-A version):	ATEX II 1 G Exia B T6
Waterproof Rating:	IP68
Process Connection:	Cable Mount Wedge Clamp
Electromagnetic Compatibility:	EN61326
Probe Dimensions:	Clean: 173mm x 22mm diameter Waste: 210mm x 22mm diameter

Wiring Information:

All HST Hydrostatic Level Sensors, including OEM versions and custom-request items, utilize the same wiring configuration. For standard versions, certain wires may not be in use. Detailed wire color coding information can be found below.

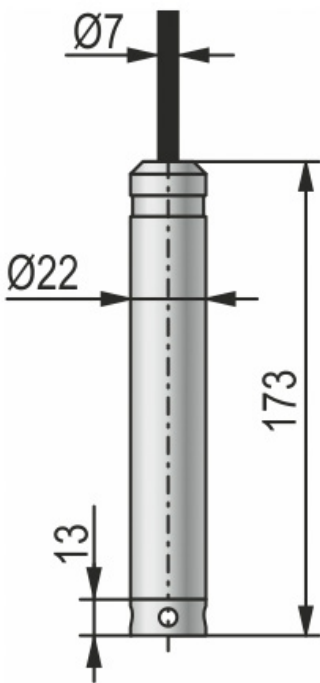
4-20mA & HART Versions

Yellow	Earth
Red	Positive Current+
Black/Blue	Negative Current -

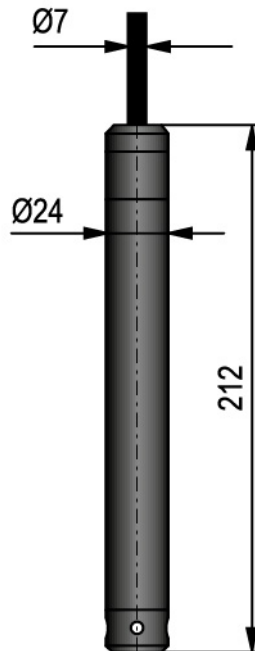
0-10VDC Versions

Yellow	Earth
Red	Supply In
Black/Blue	Common
White	Voltage Out

Dimensions Diagram:



Clean Water Probe



Sewage Water Probe