

Smartcost Compact Ultrasonic Level Transmitter



- Competitively Priced
- 4-20mA Level / Distance transmitter up to 5 Metres standard, Option to 7 Metres
- 2 Calibration Keys + RS485 Communications
- 2 Built in Programmable Relays (5A, 250v AC)
- 2" Thread Process connection or flanged option
- IP65 Standard Enclosure, IP68 version available on request
- 24v DC Power supply, Other options available on request

The compact Smartcost Ultrasonic level transmitter has been designed for use in tanks, basins & channels & is suitable for use in applications where the temperature can be up to 80°C. The Polypropylene enclosure makes the Smartcost transmitter suitable for use in aggressive chemicals or liquids.

By using a powerful single chip, a high speed processor & enhanced manufacturing techniques the Smartcost transmitter provides stable readings, accuracy & reliable measurements in many applications.

The IP65 version of the Smartcost transmitter features calibration switches in the connection head of the transmitter enabling easy calibration. If the Smartcost transmitter is used just as a two-threshold transmitter (Minimum & Maximum levels) calibration is performed by simply pressing 2 switches in a pre-arranged sequence.

For more complex applications the Smartcost transmitter can be configured by a PC through the RS485 port using the "LC" software enabling the user to set up minimum & maximum thresholds, pump controls or self diagnostic alarms.

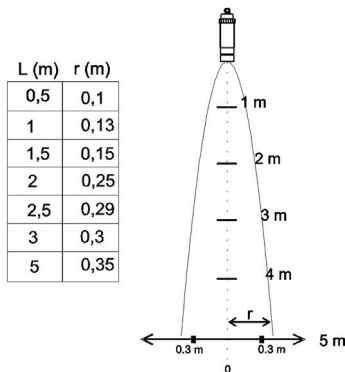
The Smartcost Ultrasonic level transmitter is also available as an IP68 version on request where the transmitter is completely sealed with connection via an integral 3 Metre cable to a remote junction box.

The Smartcost transmitter comes as a standard 24v DC version, with options for 24, 48, 115, 230v AC power supply versions.



Specification

Enclosure material:	Polypropylene
Mechanical installation:	2" BSP standard or options of PP DN50 flange or PP DN80 flange
Mechanical protection:	IP65 (IP68 version available on request)
Electrical connection:	Internal plug-in connectors (IP65) or 3 Metre integral cable (IP68)
Working temperature:	-30 ° to +70 °C
Pressure:	From 0.5 to 1.5 bar (absolute)
Power supply:	24v DC standard (Optional 24, 48, 115, and 230v AC)
Power consumption:	2W
Analogue output:	4-20mA max load 600 ohm
Relays output:	2 x normally open contacts. 2A, 230v AC
Serial port:	RS485
Maximum measure range:	5m (option 7m extended range)
Blocking distance:	0.25m
Temperature compensation:	PT100 from -30 to +70 °C
Accuracy:	+/- 0.5% not better than +/-1mm
Resolution:	0.3mm
Calibration:	Two push buttons or by RS485 Port
LED's display:	Green LED flashing for echo receiving / Yellow LED's for relay 1 and relay 2 actions



NOTE: Install the transmitter perpendicular to the surface being measured.
Do not use with foaming products.
The transmitter has a blocking distance of 0.25m over which it cannot measure.

Part No	Description
SMART1B4A	IP65 Ultrasonic level transmitter with 2" threaded connection, 4-20mA out + 2 relays. Range of measurement 0.25 – 5 Metres. 24v DC Power supply required.
SMART1B2A	IP65 Ultrasonic level transmitter with 2" threaded connection, 4-20mA out + 2 relays. Range of measurement 0.25 – 5 Metres. 230v AC Power supply required.
SMART3B4A	IP65 Ultrasonic level transmitter with 2" threaded connection, 4-20mA out + 2 relays. Range of measurement 0.4 – 7 Metres. 24v DC Power supply required.

* Other options available – please contact LTH sales department for full list of options available.



These products comply with current European Directives

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