HTM

SL 2 WIRE ULTRASONIC LEVEL METER WITH REMOTE TRANSMITTER

INTRODUCTION

HTM SL 2 Wire Ultrasonic Level Meter is a programmable, versatile, low cost and compact ultrasonic level sensing instrument that is suitable for measuring levels of water & any non-corrosive fluids. It can also be used for measuring distance of an object from the measuring point. Each set of SL 2 Wire Ultrasonic Level Meter consists of a sensor housed in a sealed UPVC enclosure and a signal converter housed in an IP66 wall mounted enclosure. It has a built-in lightning surge arrestor and is fully tropicalised for reliable operations.

PRINCIPLE OF OPERATION

HTM SL 2 Wire Ultrasonic Level Meter is a non contact type level sensor which utilizes the time taken for an ultrasonic wave to be reflected from the measured surface to the sensor to compute the distance of the surface from the sensor. This signal is converted into level signal and then scaled & conditioned into 4-20mA current output for instrumentation purpose. An integral alphanumeric LCD display provides a direct read out of the level measured in metres.

FEATURES

Built-in lightning surge arrester

HTM SL 2 Wire Ultrasonic Level Meter is truly designed for tropical environment where lightning surge is a major destructive factor in instrumentation systems. Its converter has a built in 2 stage lightning surge arrester which protect the electronic circuit in the event of lightning surges. This effectively reduces the risk of level meter damage and hence down time of the instrument.

Two wires operation

HTM 2 Wire Ultrasonic Level Meter is a two wires instrument which uses power cables to transmit signal. This enables lesser number of cables to be used.



Password protected

The instrument can be password protected to prevent unauthorized attempt to manipulate user settings.

Low cost & repairable

HTM SL 2 Wire Ultrasonic Level Meter is a low cost & yet reliable instrument designed to be repairable in the event of failure. Faulty modules can be replaced easily without complete unit replacement.

Display Options

Equipment LCD offers option to either display measured liquid level or space distance between sensor and liquid surface plus surrounding temperature.

Humidity/Dew Immunity

The major electronic components of SL 2 Wire Ultrasonic Level Meter are housed in ABS IP66 rated converter housing and tropicalised. This eliminates the risk of electronic failure due to humidity.

Ease of calibration

Converter unit is intelligent enough to self calibrate to accommodate to the change of site condition.

SPECIFICATIONS

Power supply: 18 to 36Vdc Power consumption: 0.5W Display: Alphanumeric LCD Accuracy: +/- 0.3% FS

Linearity & Repeatability: +/-0.25% FS

Display resolution: 10mm

Output resolution: 0.03% of actual range

Long term stability: +/-0.25% FS

Transient protection: 10kV, 10kA@8/20µS

Calibrated ranges: 0-10Mwg std

Blind spot: <= 0.3m

Range turn down ratio : 0.5:15 Measurable range : 0.7 to 15m

Testing cycle: 1 Sec Beam pattern: 10° (3dB)

Working temperature : -20 to + 60°C Temperature compensation : Built in

Dimensions:

Converter : 180 X 120 X 60 (mm) Sensor : 55dia. X 172mm

Wiring connection: 2 wires

Outputs: 4-20mA, max 600 Ohms@24Vdc

Materials of construction:

Converter : Polycarbonate

Sensor housing : UPVC

Sensor surface : PTFE material

Cable : PVC

Degree of protection :

Converter : IP66 Sensor : IP65

Cable type: RG62 Diameter of cable: 6mm

Cable gland: 2 X M16 IP68 Nylon glands
Cable length: 5M std, optional up to 50M
Std accessories: Sensor mounting L bracket

Weight: Converter : 500g Sensor : 500g Cable : 40g/M

> L bracket : 250g Shipping : 2kg

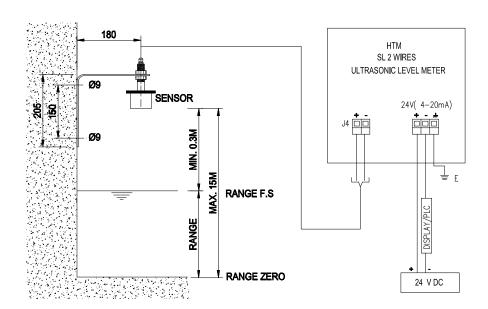
Compliance: EN61326-1:2006, EN55011:1998

+A1:1999 +A2:2002, EN61000-4-2:1995 +A1:1998 +A2:2001, EN61000-4-3:2006, EN61000-4-4:2004, EN61000-4-5:2006,

EN61000-4-6:2007

SENSOR MOUNTING DETAILS

WIRING DIAGRAM AND ADJUSMENTS



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Manufactured by :