Electric Pressure Type Level Transmitter

OPERATING PRINCIPLE

The Hanla Pressure Type Level Transmitter is for continuously measuring the liquid level of ballast tank, draft and fuel oil tank in the marine ships as well as tanks containing media.
The PL40 is a 2-wire, 4~20mA level transmitter consisting of a transducer and an amplifier connected via a submersible vented cable.
Pressure change in the front of the diaphragm will bring about a capacitance change in the cell of the transducer.
This change will be transmitted to amplifier as a change in the electrical signal.
The PL40 is manufactured in several ranges, and available.
Especially the electro pressure type level transmitter can be connected to C.R.T. display cargo system, loading computer, indicator, and analog type indicator to measure the actual level.

TECHNICAL SPECIFICATION

- Output : 4 ··· 20mA adjustable
- Accuracy : ±0.2% F.S at 20℃
- Supply voltage : 12 ··· 28VDC
- Range : Gauge 175mbar to 4bar
  Absolute 1400mbar to 4bar
- Overpressure : Gauge 6bar to 25bar
  Absolute 10bar to 25bar
- Diaphragm cell : Capacitive transmitter with ceramic diaphragm
- Materials
  - Diaphragm : Ceramic
  - Sensor Body : Stainless steel 316L
  - Amplifier box : SCS13(Indoor) / SCS14(Outdoor)
  - Special cable : Sheathed polyethylene cable
- Operating temperature range
  - Transducer : -40~125℃
  - Amplifier : -25~85℃
- Protection class
  - Transducer : IP68/submersible
  - Amplifier : IP66
- Intrinsic safety : EEx ia Ⅱ c T5
  (Max. 50m cable between transducer and amplifier box)
- Cable length : 3m in standard (option : up to 50m)

APPLICATIONS

- Ballast tank remote reading
- Draft remote reading
- Heeling and trim remote reading
- Fuel oil tank remote reading
- Waste waters, wells, locks, rivers etc.

MODEL NUMBER CODE SYSTEM

PL-40 - □ - □

- Type
  - I : Inside mounting type
  - O : Outside mounting type
  - U : Utility type
  - P : Pneumatic type
- Measuring range
  - A : 0.1bar
  - B : 0.2bar
  - C : 0.4bar
  - D : 1bar
  - E : 2bar
  - F : 4bar
- Symbol of electric pressure type level transmitter

FEATURES

- High measuring accuracy
- Excellent stability
- Capacitive transmitter with Ceramic diaphragm
- High overload limit
- High temperature stability
- Corrosion resistance
- No hysteresis
- Marine class approval