



TR420E

Description

Available in lengths up to 15 feet, the TR420E features a standard ½ inch repeating increments with optional ¼ inch resolution and can be supplied in a variety of mount sizes and enclosure styles. The various output options are compatible with most programmable controllers and digital receivers. The TR420E carries an FM explosion-proof rating for Class I, Division 1, Groups A, B, C, and D; and dust-ignition proof for Class II/III, Division 1, Groups E,F and G hazardous, (classified) locations, indoor/outdoor (Type 4, 4X). It can also be equipped with independent point-level float/switches for high and low alarms above or below the transmitter range.

Principle of Operation

As the float moves, a magnet inside the float actuates a series of reed switches and resistors. The signal is electronically conditioned through the built-in transmitter board to provide a proportional 4-20 mA current output.

Key Features

- FM approved Class I, Division 1, Groups B, C, D
- Power: 12 VDC or 24 VDC
- Outputs: 4–20 mA, 0–5 VDC, 1–5 VDC
- Replaceable solid state electronics
- NEMA 7 & 9 enclosure
- Lengths up to 15 feet
- Available with weighted float for measuring level of liquid interface, (oil/water)

Environmental

- Maximum Process Temperature: +176° F (+80° C)
- Max. Pressure: 750 psig (50 bar)
- Wetted Parts Material: 316L SS

Electrical

- Power Supply: 14–30 VDC (8.5–16 VDC)
- Output: 4–20 or 0–5 VDC proportional to liquid level
- Power consumption: 1.3 VA
- Resolution: ½-inch (¼" spacing available)
- Response time: 0.5 seconds
- Independent switch contacts: SPST 100 VA, SPDT 30 VA

Applications

- Fuel & Chemical Storage
- Oil/Water Separators
- Generator Set Fuel Tanks
- Day Storage Tanks
- Off-road Fuel Containers

