

TR02E SERIES

LOOP-POWERED LEVEL TRANSMITTER FOR HAZARDOUS LOCATIONS

DESCRIPTION

The vertically-mounted TR02E Loop-Powered Level Transmitter for Hazardous Locations is equipped with an integral signal conditioner and provides a reliable 4-20 mA proportional electronic output in tank levels up to 15 feet. It is easily adaptable to programmable controllers, meters and other digital receivers for accurate and continuous measurement in many liquid level applications. The TR02E is FM-approved with an explosion-proof rating for Class I, Div I, Groups A, B, C & D and an dust ignition-proof rating for Class II/III, Div I, Groups E, F & G hazardous (classified) locations, indoor/outdoor (Type 4, 4X). Float materials are available in stainless steel with a selection of mounting types. Additional options include high-level and low-level alarms as well as SPST 100 VA or SPDT 30 VA switch contacts. Display outputs also available.

PRINCIPLE OF OPERATION

As the float travels with the fluid level within the tank, the float's internal magnets continuously activate the sensor within the stem. The changing signal is processed through the embedded electronics to provide a reliable analog output precisely proportional to the liquid level.

KEY FEATURES

- Two-Wire, Loop-Powered Device
- FM-Approved Class I, Div 1, Groups A, B, C & D
- Robust & Accurate Embedded Transmitter
- Hazardous Location Enclosures Optional
- Probe Lengths Up to 15 Feet
- Optional Interface & Custom Configurations

ENVIRONMENTAL

- Process Temperature:
-40° to +185° F (-40° to +85° C)
- Process Pressure: Up to 750 PSIG (51.7 bar)





SPECIFICATIONS

MOUNT SIZE	MOUNT TYPE
1 ½" to 4" NPT	NPT Outside Mount
2 ½" to 4" Sanitary Flange	NPT Inside Mount
1 ½" to 4" #150 ANSI Flange	Flange
1 ½" to 4" #300 ANSI Flange	Sanitary Flange

ELECTRICAL

- Input: 10 to 30 VDC
- Output: 4-20 mA
- Response Time: < 1/2 Second
- Linearity: ± 0.50%
- Resolution: 1/2" or 1/4"
- Power Consumption: 1.3 VA
- Independent Switch Contacts:
SPST 100 VA or SPDT 30 VA

APPLICATIONS

-  Fuel & Chemical Storage
-  Oil/Water Separators
-  Fuel & Day Storage Tanks
-  Off-Road Fuel Containers



DIMENSIONS

