

T-PAC 4-20 mA Converter

4-20mA Converter



When it comes to reliable and accurate level gauging on oil storage tanks, the TPZ 3310 is the preferred leader in electromechanical level gauges. It has been available since 1989 with an earlier version of signal transmitter: pulse up/down. Rather than require our Customers to upgrade to a Loon 4-20 mA transmitter (which may require an additional wire to be run from the gauge to the control room) EMS invented the T-Pac. This solution allows the existing wiring to be maintained. All that is required is the simple addition of the T-Pac transmitter in the control room, connected to the existing wiring. 4-20 mA is then immediately available. This is just another example of how we at EMS seek to solve our customer's problems in the most effective manner for them.

- Converts up/down pulses to analog signal out
- Easy to program
- No extra cable is needed to run to existing pulse device
- Hooks up easily to existing TPZ pulse wiring to also have a 4-20 mA output
- A manual count switch is provided
- Power fail mode when the power supply voltage drops below

applications

- Conversion of TPZ up/down pulse signals to 4-20 mA

Estevan Meter
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T-PAC Converter features

The T-PAC monitors up and down pulses generated by a TPZ transmitter and increments or decrements a user defined level count accordingly. The level count may be monitored by reading a 4 to 20mA output signal or through a Modbus communication protocol. The 4-20mA output has 12 bit resolution making the output capable of proving 4095 different levels. The Modbus protocol can use either the RS232 or RS485 communication standard. The T-PAC was designed to work in -40deg C to +60deg C in a NON-hazardous area.

- Power: 11VDC to 28VDC, internally fused at 250mA
- Ambient Temperature: -40 C to +60 C
- Humidity: 5% to 95% non-condensing
- Communication Protocol: Modbus
- Communication Drivers: RS232, RS485
- Baud Rates: 1200,N,8,1 or 9800,N,8,1
- 4mA-20mA Output: Sourcing, 12 bit resolution, updated 10 times a second
- Accuracy = +/-0.1%
- Led Indicators: RUN, Tx Data, Rx Data
- Case Size: 4 1/2" x 3 7/8" x 11/16"
- Simple installation in control room
- Uses the existing pulse up/down wiring
- 4-20 mA output to PLC's, controllers, call outs, etc

System kit includes: T-PAC transmitter

locations

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