

# 4590 Tank Side Monitor

Inventory control field device for tank sensor operation and monitoring and for integration into inventory control systems

Software Version 02.04.

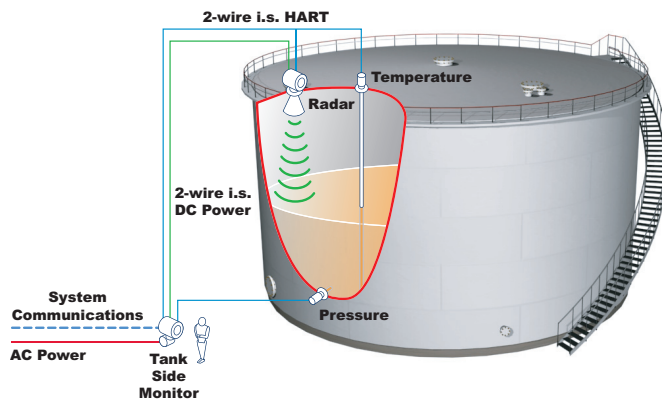


## Highlights

- Provides intrinsically safe (i.s.) power and communication for Varec radar tank gauge systems.
- Connects up to 6 HART devices using i.s. 2 wire connections.
- Easy operation using built-in display.
- Provides communication to PLC, DCS, and SCADA systems.
- Interfaces to FuelsManager using 8130 Remote Terminal Unit.
- Industry standard communication protocols.
- Tank calculations for accurate correction of the tank distortions.
- Approved for use in explosion hazardous areas.
- Weights & Measure-approved for use in custody transfer applications.

## Application

The 4590 TSM integrates all sensor data at the tankside, and then provides this information to the control room. It can be used with Varec servo or radar tank gauges and also combine other HART compatible devices into a single tank gauging system.



Example Tank Gauging System

## Product Options

### Approvals

- CSA, FM, and non-hazardous
- Contact Varec for ATEX or IECEx approved devices

### Field Communications

- ENRAF BPM, GPE, WM550, L&J, MODBUS, HART

### Power Supply

- 18 - 55 VAC/VDC or 55 - 264 VAC

### Inputs & Outputs

- With and without RTD temperature input
- Without Discrete Input/Output Module A
- Discrete Input Module from 90 to 140 VAC, 3 to 32 VDC, 180 to 280 VAC, 35 to 60 VAC/VDC
- Discrete Output Module from 24 to 280 VAC, 3 to 60 VDC, 24 to 180 VAC, 4 to 200 VDC

**Technical Specifications**

This product conforms to all applicable industry standards and approvals, such as climate class, electromagnetic (EMC), vibration, and radio frequency (RF). See product installation manual.

<b>Net weight</b>	17.6 lbs (8 kg)
<b>Power supply</b>	55 to 264 VAC; insensitive to polarity / CSA approved: 55 to 250 VAC 18 to 55 VAC/DC
<b>Power consumption</b>	370 mA @ 24 VDC 200 mA @ 48 VDC 75 mA @ 125VAC 45 mA @ 220 VAC
<b>Ambient temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Enclosure</b>	Explosion proof die-cast epoxy coated aluminum Rated IP65 (NEMA 4)

**Certifications & Approvals**

CE mark FM - FM XP - Class I, Div 1 Groups A-D; CSA - FM XP - Class I, Div 1 Groups A-D;
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