

















FMP 40 and Ecograph T RSG 30 Tracking Fuel Usage- Gas/Oil

FMP 40 and Ecograph T provide real time data for tracking fuel tank level and usage for inventory control



High fuel cost have caused many companies to take more control over usage,

and to better monitor inventory levels

A company in Oklahoma provides various

hole tools, coiled tubing services, pipeline service and specialty chemical services in

Monitor a diesel fuel tank for usage and to

track when and how much fuel to order.

This customer has a large fleet of diesel

fueled trucks. The fuel is used by all the

trucks at this facility, and is serviced by a

single tank. The information needs to be

dispense the fuel, to the yard managers and

accessible to the facility operators who

selected geographic markets

Application description

to the facilities engineer.

services for the oil industry; including down

in order to cut their own transportation

Customer profile

costs.



Levelflex M radar sensor and Ecograph T data manager

- provided the following solution: 1. An FMP40 Leveflex (guided wave radar) with a coax probe for actual level measurement in the horizontal tank. (sensor was provided pre-calibrated by representative)
- 2. An RSG30 (Ecograph T) Data Manager with Embedded Web Server to receive the level information, display, alarm and record levels and usage, and to provide LAN access to all users.
- 3. A Phoenix Contact Spread Spectrum Frequency Hopping Radio with Class I div 2 ratings, for reliable remote data transmission in the operating yard where truck radios operate constantly.

The FMP40 is installed through the fuel tank vent piping on the top of the tank (see back page). The RSG30 is installed in a NEMA 4 enclosure at the fuel tank operators building.

Instrument description

Application challenges

The fuel tank is remote from the main offices, about 300 feet, without any cables or conduit between the tank and the building. The area is Class I, division 2.

The local Endress+Hauser representative worked with the facilities engineer and

The Levelflex M FMP40 is a top mounted compact level transmitter that transmits micro impulse radar signals on a rod or cable. The pulses are reflected by the product surface, received by the electronics, evaluated and converted into level information. Fluctuations in density, temperature or foam do not affect the measurement.



Dispensing fuel

The Ecograph T data manager is a multichannel display with an embedded web server and paperless recording capability. Up to 6 inputs can be displayed simultaneously. The Ecograph T with its innovative features, ease of configuration and spacesaving design delivers unparalleled price to performance ratio.

The Ecograph T is a compact unit with reduced panel depth, saving space and panel costs. Locale access to Compact Flash card and USB port prevents tampering of data and unauthorized configuration changes. The data manager has Ethernet capability, USB, RS232/485 ports, embedded web server/OPC server; which allows direct integration into data systems and networks, plus worldwide data accessibility.

Results

The facilities engineer installed all components, assigned an IP address on the LAN to the RSG30, and the system has worked as planned. During a recent company wide meeting in Texas, the Oklahoma center displayed the tank level readings (live over the WEB) to all present. Consideration is being given to use this arrangement as a standard configuration in all service facilities.



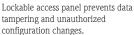






 $\begin{array}{l} Ecograph \ T \ mounted \ in \ cabinet \ inside \\ operators \ building \end{array}$

Levelflex FMP40 mounted in vent pipe on top of cylindrical fuel tank. Coax probe does not interfer with venting capabilities.





Removable Compact Flash card for data storage and USB port for connection to laptop computer or other compatible device.





Compact unit with reduced panel depth to save space and reduce panel mounting costs.

For more information, contact Endress+Hauser, Inc. 317-535-7138 www.us.endress.com

ISO 9001:2000 Certified

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