

Promhim Utilizes Emerson's Wireless Solution to Enhance Operating Performance on Their Oil Tank Farm Management System

RESULTS

- Lowered total cost by eliminating the high price of trenching, conduit-laying, and cable-pulling
- Enhanced operating performance with more accurate measurements
- Simpler and more flexible project deployment



APPLICATION

Oil Storage – project based on wireless data collection and integration into SCADA top level system

CUSTOMER

Private tank farm “Promhim”, located at remote site near Stavropol City, Russia

CHALLENGE

Promhim had a limited budget for renovating their existing tank farm management system. Their main challenge was to find ways to reduce the amount of CAPEX by avoiding complete system upgrades since their fiscal measurement equipment was outdated with no proper control over the process. They already had limited infrastructure that would require significant time and money to wire, start-up, and commission the system.

“Emerson’s wireless solution reduced our start-up time and our total installation costs. The flexibility solution gives us an opportunity to scale up our system and gradually add new functionality to our SCADA operation.”

SOLUTION

Emerson proposed a joint solution involving Rosemount Wireless Transmitters and the ControlWave Micro™ RTU using the WirelessHART™ Interface Module. The ControlWave Micro RTU auto-detects the WirelessHART devices as they are added to the network so there was no site survey required which reduced start-up time, eliminated the high cost of trenching, conduit-laying and cable-pulling. The network enabled their wireless field devices to automatically find alternate communication paths, avoiding obstacles so they had more flexibility during setup.

This solution found out to be most cost-effective solution on the current Tank Farm management systems market. The system scalability includes easy expansion, which is also very important for Promhim. Apart from their increased number of connected tanks, Promhim intended to add extra sub-systems like a gas detection system and truck-loading terminals based on Emerson's equipment.

The Wireless solution improved their personnel safety by creating enhanced visibility and process knowledge of their operation, eliminating unnecessary trips and minimizing time spent at the tank farm.

Global Headquarters
North America and Latin America
Emerson Automation Solutions
Remote Automation Solutions
6005 Rogerdale Road
Houston, TX, USA 77072
T +1 281 879 2699
F +1 281 988 4445

Europe
Emerson Automation Solutions
Remote Automation Solutions
Unit 1, Waterfront Business Park
Dudley Road, Brierley Hill
Dudley, UK DY5 1LX
T +44 1384 487200
F +44 1384 487258


Middle East and Africa
Emerson Automation Solutions
Remote Automation Solutions
Emerson FZE
PO Box 17033
Jebel Ali Free Zone - South 2
Dubai, UAE
T +971 4 8118100
F +971 4 8865465

Asia Pacific
Emerson Automation Solutions
Remote Automation Solutions
3A International Business Park
#11-10/18, Icon@IBP, Tower B
Singapore 609935
T +65 6777 8211
F +65 6777 0947

www.Emerson.com/RemoteAutomation

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