

## PRESSURE APPLICATION

### Application

## 815PT Smart Pressure Transmitter

### The Challenge

### Remote Monitoring of Casing, Tubing, Horizontal Separator and Heater Treater Pressures at Oil & Gas Well Sites

An independent oil & gas production company had a Supervisory Control and Data Acquisition (SCADA) industrial control system that integrates advanced pressure, temperature, level and flow instruments with surface data communications to allow remote monitoring of oil & gas wells. All process instruments were required to have Modbus RTU (RS-485) serial communications protocol; since a key requirement was to provide accurate tubing, casing, horizontal separator, and heater treater pressure measurements to a local Remote Terminal Unit (RTU). All well site data is transmitted wirelessly to a server located in a remote field office.



### The Solution

Four SOR® 815PT smart pressure transmitters with a 0.1% accuracy were used to measure tubing, casing, horizontal separator, and heater treater pressures. The 815PT units were configured to communicate pressure data to the RTU via Modbus RTU. The 815PT offers many industry standard outputs and communications, including HART® 7 communication protocol and Modbus RTU (RS-485) serial communications protocol. The 815PT is a feature rich, low cost, stick form-factor transmitter that sits at the top of its class. Its explosion proof stainless steel construction and 3 year warranty dramatically reduces the total cost of ownership.



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