



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

TMT121 in Pump Motor Monitoring- Chemical

Large pump motors require temperature monitoring to prevent breakdowns and overheating



Typical industrial pump



TMT121 transmitter



Typical storage area

Product Information

The TMT121 transmitter converts RTD signals into 4 to 20 mA signal which provides temperature information to control PLCs. The TMT121 provides a galvanic isolation of 2 kV.

Customer Profile

A pipeline company with operations based in Texas transports CO₂ (Carbon Dioxide) through 20" pipe with a capacity of 380 MMCFD at 1800 to 1900 psi. With over 1100 miles of pipeline, pumps and motors must be monitored to prevent costly downtime. The customer sells what is called a CO₂ flood to oil and gas exploration and production companies. As wells age, production levels decrease. By injecting CO₂ floods into their wells, companies are able to force the oil or gas to rise to the top.

Application description

Customer had Ni120 RTD's that were supplied with the original pump motor as part of the monitoring equipment package. The customer upgraded their control system to incorporate a PLC based monitoring and control scheme.

Application challenges

Customer wanted to use the existing RTD's to avoid having to pull the pumps apart to change out the temperature sensors. The PLC I/O cards were not designed to interface with Ni120 RTD's.

Previous instrument

Ni120 RTDs directly wired

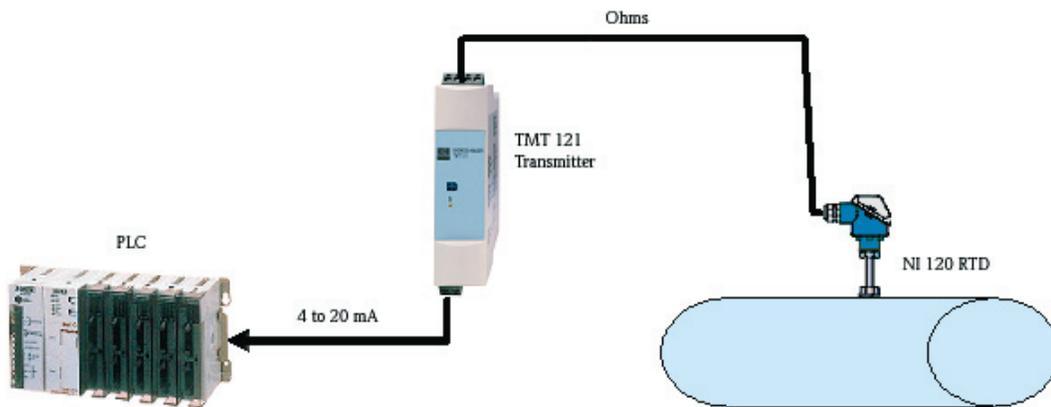
Measurement results

Customer was able to get his system up and running in no time without having to do any special programming or order custom I/O cards.

Instrument description

DIN Rail Transmitters TMT121
PC programmable using Readwin® software

For more information, contact
Endress+Hauser, Inc.
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Monitoring system with TMT 121 transmitter



Control panel with TMT121 rail mounted transmitters

ISO 9001:2000 Certified

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