



## Solar Powered Thermal Mass Flow Meters For Oil Field Flare Gas Monitoring System

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The Legacy Reserves team needed a flow meter with agency approvals for this demanding oil/gas hazardous environment application, and the ST75V meter approvals include: FM/CSA, Class 1, Div 1, Groups B, C, D; Class 1, Div II, Groups A-D, ATEX/IECEX Zone 1, II 2 G Ex d IIC T6 ...T3, II 2 D Ex tD A21 IP67 T90°C...T300°C.

The new meters were easy to install at the Legacy Reserves site. It only took the crew 1.5 days to complete the installation after a short training presentation. The meters were installed at a 45-degree angle to avoid wet gas accumulation on the sensor head that could affect measurement accuracy.

### Conclusions

Schillo said at the conclusion of the project, "What we're seeing with the new meters is extremely positive. They've proven themselves already during our reviews with the NDIC and BLM staff. There have been no problems to report." In addition, Schillo added that he is already thinking about using the FCI ST75V flow meters at other company production sites. He also was pleased with the support that he received from Jasper Engineering and FCI throughout the process of selecting and installing the new meters. ■

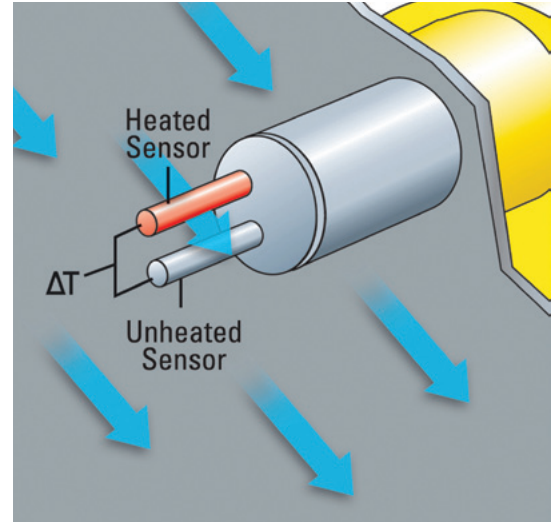


Figure 4: Thermal dispersion technology principle of operation