

M200- DI Isolated Differential Pressure Smart Manometer – Periodic Checking of Steam Flow Transmitter Accuracy

Requirement:

A major energy supplier in the northeastern U.S. needed a portable differential pressure tester for periodic accuracy checks of DP transmitters. These transmitters are used to monitor outlet steam flow and provide information for monitoring boiler performance, steam generation efficiency metrics and custody transfer.

The successful tester was required to have wet / wet DP measurement capability at line pressure up to 350 PSIG, accuracy better than $\pm 0.05\%$ FS, convenient process connections, 100 hours of battery life and a backlit display for easy viewing in darker areas of the facility.

Solution:

Meriam's M200-DI Smart Manometer for wet / wet differential pressure met this requirement perfectly! The handheld unit is available in differential pressure ranges from 28.000" H₂O to 500 PSID to suit many measurement needs. Standard accuracy is $\pm 0.05\%$ FS (optional $\pm 0.025\%$ FS is available) including all affects of linearity, repeatability, hysteresis and temperature over the range of -4° to +122° F (-20° to +50° C). The 1000 PSIG common mode pressure limit offers outstanding application versatility.

Other key features include backlit display, weight of just 30 oz, battery life in excess of 100 hours, 1/8" NPT(F) HI and LO pressure connections and user-selectable choice of 11 pressure units, 1 user defined unit or square root flow. Intrinsically Safe versions are also available per cUL_{us} / ATEX.



Meriam Process Technology is the name to trust for all of your portable pressure needs!