



Application Note

MFT 4010 Multifunction Calibrator / HART[®] Communicator

The User: All technicians responsible for installing, configuring, commissioning, calibrating and maintaining process industry conventional and HART transmitters including Instrumentation and Electrical Shop Technicians, Instrument and Control Shop Technicians, Maintenance Technicians

Applications: Initial pressure and temperature transmitter setup and check out, HART communication and configuration, maintenance, calibration checks, documenting the performance of conventional and HART transmitters, re-certification to NIST traceable standards, loop checks, receiving device checks (mA dc, V dc, mV dc, ohms)

User activities: Typical daily activities include preventative maintenance, unscheduled trouble shooting and maintenance, scheduled calibration and re-certifications, as found and as left documentation, reconfiguration for process changes and short term “shut downs” for change out of critical process equipment and re-fit of instrumentation and controls.

Instrumentation need: Portable, accurate, NIST traceable calibration gear for conventional and HART transmitters that is versatile and able to reduce the workload of the instrument technician. HART communication interface for all HART device types and HART trim commands for recalibration of HART pressure and temperature transmitters. Instrument technicians need easy to use, multifunctional gear that enables them to commission, maintain and replace instrumentation with the least amount of equipment and complication.

Solution: MFT 4010 Multifunction Calibrator / HART Communicator

The modular MFT 4010 enables instrumentation customers from a wide variety of process industries to customize the MFT to fit their measurement needs. The modular calibrator provides flexibility / versatility in a NIST traceable calibrator that is not available in competitive units. With three (3) module bays and voltage and current measurement integral to the base unit, the MFT 4010 can cover a wide range of pressure, temperature, voltage and current measurement and simulation requirements. HART transmitter users will appreciate the built HART communication capability and configuration features. The MFT 4010 will communicate with all HART device types and provide convenient analog and digital trim commands needed to restore HART pressure or temperature transmitter back in first class operating condition. There is no need for a separate HART communicator or multimeter when using the MFT 4010. Quick Cal and Smart Trim features plus full HART communication capability provide users with time-saving features. The MFT 4010 has the right tool available for every job.