



## Application Note

### MFT 4005 Multifunction Calibrator with HART<sup>®</sup> Trims

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

**Applications:** Initial pressure and temperature transmitter check out, maintenance, calibration checks, documenting the performance of conventional and HART pressure and temperature 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 interface to execute trim commands necessary 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 4005 Multifunction Calibrator**

The modular MFT 4005 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 4005 can cover a wide range of pressure, temperature, voltage and current measurement and simulation options. HART transmitter users will appreciate the built in analog and digital trim commands needed to put any 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 4005. Quick Cal and Smart Trim feature provide the user with all the information needed to determine which trims are needed and a menu-free method of affecting HART trims. The user saves time with the MFT 4005 and has the right tools at hand for every job.

For full HART<sup>®</sup> communicator needs see the MFT 4010 Multifunction Calibrator / Communicator Application Note.