

Process Calibration Tools

Electrical, Multifunction, and mA Loop Calibration

4

Multifunction calibrators	5
mA loop calibrators.....	7

Data Acquisition

9

Data acquisition system.....	9
------------------------------	---

Pressure Calibration

10

Digital pressure calibrators.....	11
Pressure comparators and master gauges	12
Manual pressure calibrators	13
Reference pressure calibrator	14
Bench deadweight testers	14

Temperature Calibration

16

Handheld temperature calibrators.....	17
Pressure comparators and master gauges.....	17
Field temperature sources	18
Infrared temperature sources	19
Thermometer standards.....	20
Ambient conditions monitor.....	20
Precision PRTs	21
Thermistors	21

Software/Accessories

22

Software	22
Temperature calibration software.....	23
Accessories.....	23

Pressure Applications

24

Calibrating a HART smart pressure transmitter	26
Pressure transmitter calibration at the bench.....	28
Pressure switch testing - manual.....	30
Pressure switch testing - documented	32

Gas custody transfer flow computer calibration.....	34
Verifying process gauges, analog and digital.....	36
Calibrating at the bench with a deadweight tester	38
Calibrating at the bench with a pressure comparator.....	40
Use and selection of hand pumps and pressure test gauges for field pressure testing.....	42

Temperature Applications

42

Calibrating and testing RTD Sensors	46
Calibrating and testing thermocouple sensors	48
Simulating thermocouples and RTDs for calibration and testing....	50
Using a precision thermometer for single point process temperature verification	52
Temperature switch and controller testing in the field.....	54
Temperature switch and controller testing at the bench.....	56
Calibrating with a micro-bath.....	58
Infrared thermometer test and calibration	60
Loop calibration with a temperature transmitter at the bench.....	62