GE Infrastructure
Sensing

Sales Summary

DPI 800 Series Hand Held Test Tools

The DPI 800 Series is an extensive range of rugged, highly reliable and simple to use hand held tools. With a similar look and feel, a wide selection of models are available for measuring pressure, temperature and electrical parameters, with more on the way.

In addition to covering a variety of measureands, the DPI 800 Series is convenient and simple to use. One of the major design accomplishments was to provide an ergonimically designed instrument that could be operated with one hand, with a large easy to read display in all types of lighting conditions and a menu system similar to that used on cell phones. Since these tools are used by plant technicians in the field, the DPI 800 Series is compact and light weight, less than 1 lb (550 g), making it easy to carry throughout a process or industrial plant.

Models Available and Benefits

DPI 800/802 Pressure Indicator

Ideally suited for pressure test and monitoring applications where a simple pressure measurement is required, allowing comparison with, or calibration of, another device or instrument.

- Accuracy: 0.05% full scale (FS) including operation 32°F to 122°F (0°C to 50°C), one year stability and calibration uncertainty. Optional 0.01% FS precision
- Available in ranges from 10 inH_2O to 10,000 psi (25 mbar to 700 bar)
- Single and dual range models available
- DPI 802 provides simultaneous pressure reading with mA measurement or switch test and supplies 24 V loop power for transmitters and control loops. For HART® devices there is an integral 250 Ω resistor

DPI 811/812 RTD Calibrator

Measures and simulates RTD sensors–a great tool for checking RTD probes, transmitters, indicator, recorders, switches and controllers.

- Automatic detection of two-, three- and four-wire RTDs quickly finds faulty probes and wiring
- Measures and simulates nine different RTD types with accuracies to 0.2°C
- Step, ramp, maximum/minimum/average, and hold features facilitates troubleshooting and system checks
- DPI 812 provides simultaneous RTD output with mA measurement or switch test and supplies 24 V loop power for transmitters and control loops. For HART devices there is an integral 250 Ω resistor

DPI 820 Dual Input Thermometer

Includes two sensor inputs and is ideal for general temperature measurement, batch/environmental monitoring, comparison testing and differential adjustment

- Single, dual and differential measurement, or read temperature and pressure with IDOS UPM fitted
- Advanced thermocouple cold junction compensation virtually eliminates errors caused by changes in ambient temperature
- Measures twelve thermocouple types allowing probes to be selected for any application
- Periodic or manual data logging records up to 1000 readings

DPI 821/822 Thermocouple Calibrator

Measures and simulates thermocouple sensors for checking probes, transmitters, indicators, recorders, switches and controllers

- Advanced thermocouple cold junction compensation virtually eliminates errors caused by changes in ambient temperature
- Measures and simulates twelve different thermocouple types with accuracies to 0.3°C
- Step, ramp, maximum/minimum/average, and hold features facilitates troubleshooting and system checks
- DPI 822 provides simultaneous T/C output with mA measurement or switch test and supplies 24 V loop power for transmitters and control loops. For HART devices there is an integral 250 Ω resistor

DPI 832 Electrical Loop Calibrator

Measures or sources mA, mV, V and captures switch trip values making it ideal for process technicians to check and maintain control loops, DCS, PLC, input cards and signal conditioners.

- Simultaneous dual readings to simplify transmitter set-up and calibration. Source mV, V or mA and measure mA. For HART devices there is an integral 250 Ω resistor
- Programmable step and ramp outputs simplifies testing
- Adjustable nudge value provides an incremental output to set valve positioners, switches, relays and alarm trip points
- Two independent 24 V power supplies to energize transmitters and control loops

DPI 841/842 Frequency Calibrator

Measureand sources frequency in Hz, kHz, CPM, CPH and pulses to test frequency meters, batch counters, tachometers, motion pickups and flowmeters

- Measure or source sine, square and triangular waveforms from 0.01 Hz to 50 kHz
- Frequency scaling reads in process units (flow or revolutions per minute)
- Adjustable nudge value provides incremental output for setting switches, relays and trip points
- DPI 842 provides simultaneous frequency output with mA measurement or switch test and supplies 24 V loop power for transmitters and control loops. For HART devices there is an integral 250 Ω resistor

Intelligent Digital Output Sensor (IDOS) Universal Measurement Modules

IDOS pressure modules are compatible with all models carrying the IDOS logo.
They provide pressure range expansion or convert temperature and electrical calibrators into fully featured pressure calibrators. Modules are interchangeable between instrument without set-up or calibration.

Options

A range of accessories are available including carrying case, belt clip and NiHh rechargeable batteries with external charger. Please refer to the individual datasheets and price list for additional details and prices.

Target Market

The target market for the DPI 800 Series is industrial/process plants and utilities (including power, water and gas). The customers are the maintenance managers, technicians and contractors who service these industries.

Competition

Major players in the hand held test/calibration tool market include Fluke, Crystal, Beta/Martel, Ametek, Heise Transmation, Altek, Mensor and several others.

Product Managers

Mike Shelton Product Manager • T +44 116 231 7353 • E mike.shelton@ge.com
Tom Reid Product Manager • T 201 825 6383 • E tom.reid@ge.com

T 800 833 9438 • 978 437 1000
F 215 953 2569
E sensing@ge.com
www.gesensing.com/druckproducts

GE Infrastructure Sensing
1100 Technology Park Dr.
Billerica, MA 01821