

DPI 811 / 812

## RTD Indicator/RTD Loop Calibrator

The Druck DPI 800 Series is a range of rugged, highly reliable and simple to use hand held instruments.

Advanced features and technical innovation address more applications in less time and deliver results you can depend on. In short, it's exactly what you need - calibrator performance at a test tool price.

Automatic detection of 2, 3 and 4 wire RTD's to highlight faulty probes

mA measure, switch test and 24V loop power

Large backlit display, menu driven interface

HART® loop resistor

- Measure and source RTD's
- 2, 3 and 4 wire auto detection
- Temperature test and maintenance
- Transmitter calibration
- Loop set-up and diagnostics
- Switch testing



Compact, simple to use, easy to carry

Convenient, one-handed operation

Rugged and weatherproof rubberized case



Plug/play connector for IDOS™ measurement modules



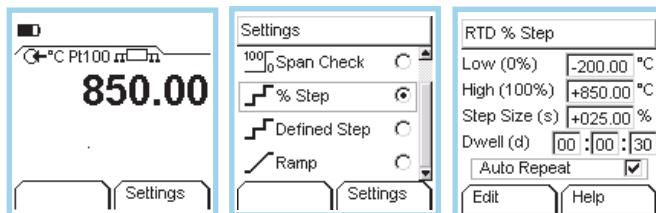
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## RTD Indicator/RTD Loop Calibrator

### Temperature Test and Measurement

DPI 811 RTD Calibrator measures or simulates RTD sensors and is the ideal tool for checking probes, indicators, recorders and controllers. Automatic detection of 2, 3 and 4 wires quickly detects faulty sensors and wiring.

Pulsed RTD transmitter compatibility, in simulation mode. Advanced features such as Step, Ramp, Max/Min/Avg, Hold and Scaling for troubleshooting and system checks.

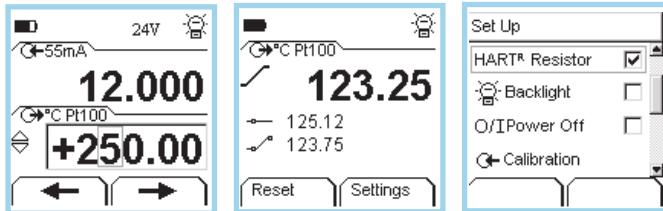


### Temperature Instrumentation and Loop Maintenance

DPI 812 RTD Loop Calibrator provides simultaneous RTD output and mA measurement for transmitter and loop maintenance.

24V loop power supply energizes transmitters and control loops. Automatic switch test captures open/closed trip values providing a fast and highly accurate "safety system" check.

HART® resistor can be switched into the loop when required by a HART® digital communicator.



IDOS™ (Intelligent Digital Output Sensor) measurement modules are available from 1 psi to 10,000 psi.

Total flexibility means IDOS™ modules can be used with any compatible instrument, for example, a DPI 812 RTD loop calibrator can become a full feature pressure calibrator.

Plug and Play modules are interchangeable between instruments requiring no set-up or instrument calibration.

Dedicated Pressure and Thermocouple models available in the DPI 800 Series.

Please refer to IDOS™ pressure modules data sheet.

### DPI 811 and 812 Specification

Measure & Simulate	Standard	*Accuracy °C (°F)	Range °C (°F)
Pt 50 (385)	IEC 751	0.5°C (0.9°F)	-200 to 850°C (-328 to 1562°F)
Pt 100 (385)	IEC 751	0.25°C (0.45°F)	-200 to 850°C (-328 to 1562°F)
Pt 200 (385)	IEC 751	0.6°C (1.08°F)	-200 to 850°C (-328 to 1562°F)
Pt 500 (385)	IEC 751	0.4°C (0.72°F)	-200 to 850°C (-328 to 1562°F)
Pt 1000 (385)	IEC 751	0.2°C (0.36°F)	-200 to 400°C (-328 to 752°F)
D 100 (392)	JIS 1604-1989	0.25°C (0.45°F)	-200 to 650°C (-328 to 1202°F)
Ni 100	DIN 43760	0.2°C (0.36°F)	-60 to 250°C (-76 to 483°F)
Ni 120	MINCO 7-120	0.2°C (0.36°F)	-80 to 260°C (-112 to 500°F)

Ohms Range	Accuracy (V)	
	Measure (4 wire)	Simulate
0 to 400	0.1 (0.5 mA excitation)	0.15 (0.15 to 0.5 mA excitation)
400 to 1500	0.5 (0.2 mA excitation)	0.5 (0.05 to 0.8 mA excitation)
1500 to 3200	0.5 (0.2 mA excitation)	1.0 (0.05 to 0.04 mA excitation)
3200 to 4000	0.5 (0.2 mA excitation)	1.3 (0.05 to 0.3 mA excitation)

\*Accuracy : Total accuracy for 1 year.

Pulse excitation currents: Minimum duration 10mS.

### DPI 812 ONLY

mA measure: 0-55 mA 0.02% rdg  $\pm 0.005\%$  FS includes 1 yr. stability. 24V loop power:  $\pm 10\%$  (35 mA max).

Switch detection: Open and closed. 1 mA wetting current.

HART® resistor: Menu selectable 2475 ohm resistor.

### DPI 800 Series Common Specification

Languages : Chinese, English, French, German, Italian, Japanese Portuguese, Russian and Spanish.

Operating temperature : 14° to 122°F.

Humidity : 0 to 90% non-condensing (Def Stan 66-31, 8.6 cat III).

Ingress protection : IP55 dust and splashing water.

Shock and vibration : EN 61010:2001, Def Stan 66-31, 8.4 cat III.

EMC : EN61326-1 :1997 + A1 :1998.

Safety : Electrical EN61010:2001. CE marked.

Display : Graphic 2 x 2 inches LCD with backlight. 99999 resolution.

Size and weight : 7 x 3 1/2 inches, 1.1 lbs.

Batteries : 3 x AA alkaline. > 50 hrs measure. > 10 hrs 24V source.

### Options

A) Belt clip, wrist strap/hanging loop and bench stand

B) NiMh batteries with charger: Batteries are charged externally.

### Ordering Information

Please state model number DPI 811 or 812 and options.

Note: Each unit is supplied with batteries, calibration certificate, user guide and a set of electrical test leads.

GE Druck is a world leader in the design and manufacture of pressure, temperature and electrical field calibrators, laboratory and workshop standards and pressure sensors and transmitters.

For more information visit [www.druck.com](http://www.druck.com)

