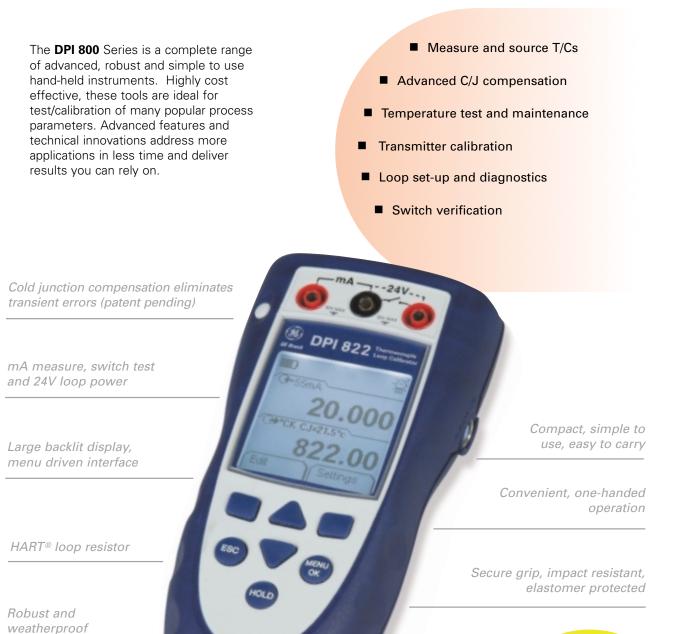


DPI 821/822 Thermocouple/Loop Calibrator





Plug/play connector for IDOS Universal Measurement Modules

Thermocouple/Loop Calibrator

	Pres	Pressure		Temperature				
			RTD		T/C			
	800	802		812	820	821	822	
Features	DPI	DPI	DPI	DPI	DPI	DPI	DPI	
Indicator (measure)	\checkmark	\checkmark						
Calibrator (measure or source)			\checkmark	\checkmark		\checkmark	\checkmark	
Thermometer (dual input and differential)				\checkmark	\checkmark			
mA measure with 24V loop power		\checkmark		\checkmark			\checkmark	
Switch test		\checkmark		\checkmark			\checkmark	
HART [®] resistor		\checkmark		\checkmark			\checkmark	
IDOS Universal Measurement Modules	1	$\rm I_{\rm I}$	1/	1_{I}	1_{s}	1/	\mathbb{Q}	
Programmable step and ramp output			\checkmark	\checkmark		\checkmark	\checkmark	
Hold, Max/Min/Avg, Filter, Alarm, Tare	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
25 pressure units plus 5 user, Leaktest	\checkmark	\checkmark	@√	2√	2√	@√	2√	
1000 point data memory, RS 232					\checkmark			
Applications								
Measurement & monitoring	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Indicator, controller & recorder testing	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	
Transmitter maintenance and calibration		\checkmark					\checkmark	
Process loop set-up and maintenance		\checkmark		\checkmark			\checkmark	
Switch, trip and safety system testing		\checkmark					\checkmark	

①Optional please refer to IDOS datasheet. ②With IDOS pressure module connected.

Temperature test and measurement

DPI 821 Thermocouple Calibrator measures or simulates sensors and is the ideal tool for checking probes, indicators and controllers.

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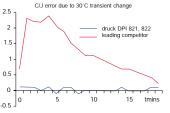
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Unique cold junction

compensation eliminates ambient temp. errors. (Patent pending).

Advanced features

Eg. Step, Ramp, Max/Min/ Avg, Hold for system checks and troubleshooting.



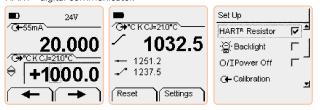


Temperature instrumentation and loop maintenance

DPI 822 Thermocouple Loop Calibrator additionally provides simultaneous T/C output and mA measurement for transmitter and loop maintenance.

24V loop power supply energises 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 for a HART® digital communicator.



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TDOS flexibility

IDOS (Intelligent Digital Output Sensor) Universal Pressure Modules are available from 70 mbar to 200 bar.

Total flexibility means IDOS modules can be used with any compatible instrument, for example, a DPI 822 RTD loop calibrator can become a fully featured pressure calibrator.

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

Please refer to IDOS Universal Pressure Module datasheet.

Туре	Standard	Range	*Accuracy			
К	IEC 584	-270 to 1370°C	0.6°C			
J	IEC 584	-210 to 1200°C	0.5°C			
Т	IEC 584	-270 to 400°C	0.3°C			
В	IEC 584	50 to 1820°C	1.0°C			
R	IEC 584	-50 to 1769°C	1.0°C			
S	IEC 584	-50 to 1769°C	1.4°C			
E	IEC 584	-270 to 1000°C	0.4°C			
Ν	IEC 584	-270 to 1300°C	0.6°C			
L	DIN 43710	-200 to 900°C	0.3°C			
U	DIN 43710	-200 to 600°C	0.3°C			
С		0 to 2320°C	1.0°C			
D		0 to 2495°C	1.0°C			
mV		-10 to 100mV				
DPI 821 and 82						

specification

*Accuracy: Total accuracy for 1 year. (Best figure for range). Cold junction error: 0.2°C max for 30°C change in ambient. Thermocouple connector: Mini-jack socket.

DPI 812 only

mA measure: 0 to 55 mA 0.02% rdg + 3 counts. Includes 1 yr stability. Outside 10 to 30°C add 0.002%FS/°C. 24V loop power: +/-10% (35 mA maximum). Switch detection: Open and closed. 2 mA whetting current. HART® resistor: Menu selectable 250 ohm resistor.

DPI 800 series common specification Operating temperature: -10 to 50°C.

Humidity: 0 to 90% non-condensing (Def Stan 66-31, 8.6 cat III). Ingress protection: IP 54 dust and splashing water. Shock and vibration: Def Stan 66-31, 8.18 and 8.4 cat III. EMC: EN61326-1 :1997 + A1 :1998 + A2: 2001. Safety: Electrical EN61010:2001. CE marked. Display: Graphic 48 X 48 mm LCD with backlight. 99999 resolution. Size and weight: 180 x 85 x 50 mm, 500g. Batteries: 3 x AA alkaline. > 80 hrs measure. > 10 hrs 24V source.

Accessories

IO800A: Carry case: Soft fabric case with accessory pocket. IO800B: Belt clip, wrist strap/hanging loop and bench stand IO800C: NiMh batteries with charger: Batteries charged externally.

Ordering information

Please state model number DPI 821 or 822 and accessories as seperate items. Note: Each unit is supplied with batteries, calibration certificate and user guide. The DPI 822 includes a set of electrical test leads

Related products

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

Continuing development can mean specification changes without notice Aaent:

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