

INDUMART Canada BARGRAPH INDICATOR

INDUMART

SERIES: DB18

- > 4-DIGIT, 14 mm HIGH LED DISPLAY
- > 50-DOT BARGRAPH, 5 mm WIDTH > mA OR VOLTAGE OUTPUT (OPTION)
- > 2 ON/OFF RELAY OUTPUTS (OPTION)
- > 2 OPEN COLLECTOR OUTPUTS (OPTION)
- > RS232 OR RS485 INTERFACE (OPTION)
- > TIMER COUNTING THE TIME FROM LAST RESET (96 DAYS & 0.1 S ACC.)



Indumart DB18 Series Bargraph Indicators accept standard current, voltage, RTD or thermocouple signals and display the value of the input in engineering units on its 50-dot bargraph and its 4-digital LED indicators. They may be used to control the process via their two relays (electro-mechanical or Solid State) or two open collector NPN transistors. They may convert the input signal into mA or voltage output (retransmission), and also have optional RS232 or RS485 digital interface. They are intended for both simple and industrial applications and for applications destined to work in computer systems.

The device software allows programming of the display range, alarm value and type, and various nonlinear input-to-display transformations. The measurement unit on the front panel display may be specified from the available parameters by the user.

In addition to applications in various processes, it can serve as limit comparator, two- or three-state ON/OFF controller, or motorized valve ON/OFF duplex controller. The DB18 Series is widely applicable in power plants.

R2

Input Type	Range	Unit
Linear Voltage	010 V	°C, %, kPa, MPa, Bar, mbar
Linear Current	020 mA	kg/cm², mmHg, m, cm, mm kg, kg/s, t, m³, m³/h, t/h, l, l/s,
Linear Current	420 mA	pH, V, mV, mA, Ω , ms, μ s and other on request
Pt-100	-200800	°C
Thermocouple "J"	-100900°C	°C
Thermocouple "K"	01200°C	°C
Thermocouple "S"	01600°C	°C
Other on Request †	as requested	°C

† Other inputs such as linear voltage up to 40 VDC, linear current up to 40 mA, Pt-10, Pt50, Pt500, Pt1000, Cu50, Cu100, and thermocouples not mentioned in the above table may also be ordered.

SPECIFICATIONS

Input See the Input tables

Accuracy 0.4% of the span

240° arc **Bargraph Display**

Bargraph Segments 50 LED segments

Bargraph Range 0...100%, Programmable

Digital Display 4-digit LED; 14 mm high

Digital Indication Range -1999...+9999, up to 3 decimal

Digital Display Range Programmable

Decimal Point Position Programmable

Nonlinear Transformation Up to 6 conversion modules

Analogue Output Input retransmission;

> Current 0/4...20 mA

Voltage 0...2 V, 0...5 V, 0...10 V

Analogue Output Range Programmable

5 A / 250 V; NO/NC contact **Relay Outputs**

Relay Signal Display 2 LEDs signaling of alarm

Solid State Relay (SSR) 1A / 250 VAC

Open Collector Outputs NPN, 40 mA / 40 V

Output for Ext. SSR 12(24) V / 50 mA

Supply Voltage 110 VAC, 230 VAC, 24 VDC/AC

90...250 VAC or VDC

Power Consumption < 6 VA

RS232 or RS485 **Digital Interface**

Output Function Network, operator station

0.005% FS / 1°C **Temperature Drift**

Cold Junction Comp. Automatic, ±1°C

-10...+65°C; < 85% RH **Ambient Condition**

Front Panel Seal IP54

Case Material Hard plastics

Mounting Panel mount

96 x 96 x 120 mm (H x W x D) **Dimensions**

Weight < 0.65 kg

