

Multipoint Indicator 538-5

- 5 input channels
- Thermocouples, RTD's, 0/4..20 mA, 0..5/10V
- Inputs user-selectable
- Each channel has individual input
- 2 relay alarms as standard
- 7 alarms as an option
- 5 output 0/4..20 mA as an option
- Math calculations
- Autocalibration
- Power supply 230 VAC or 24 VDC



The Nokeval multipoint indicator 538-5 is designed for applications, where display, output signals and alarms are desired for several measurements simultaneously. Each input channel can be individually configured for various input signals. For example, the first channel may accept thermocouple input, the second one Pt100, the third channel 4-20 mA, and so forth. Mathematical functions, such as addition, subtraction, multiplication or division, can be made between the channels.

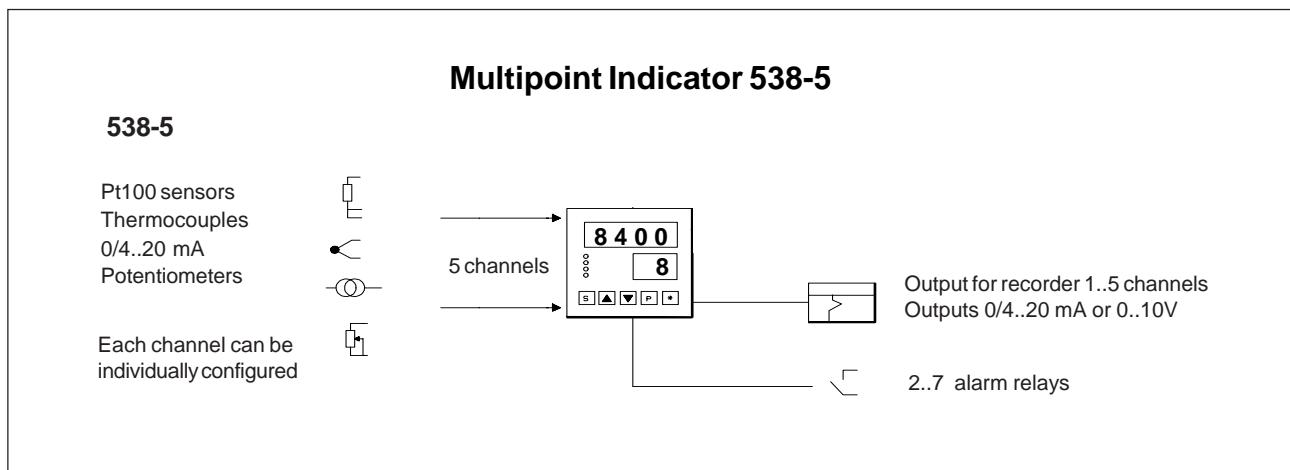
The 538-5 provides 7 alarms, 2 relay alarms as standard and 7 logic alarms on an extra card. They may all set to one channel, or according to any other option. The settings can be affected either via front panel push buttons.

Designed for performance and reliability, the 538-5, once configured, is easy to install and quick to operate. The automatic decimal point placement expands the display

by showing the small values with decimal point throughout the 0..9999 display of the meter. This function is enabled by the 16 bit A/D converter, with a resolution of 1/64000. The autocalibration takes place once a second, which eliminates temperature drifts and long term changes of the zero level and the measuring range. No potentiometers are used for adjustments.

The modular design and the remarkable, inbuilt flexibility enables the 538 to be programmed for variety of different tasks.

As the 538-5 is also capable of implementing math calculation between any channel, you will no longer need separate units for various applications. This kind of versatility can not normally be found in low-cost instrumentation.



SPECIFICATIONS

Pt100 sensor

Range 200...+700°C.

Accuracy 0,1 % ± 1 digit in 4 wire connection and 0,2°C ± 1 digit in 3-wire connection. Resolution 0,1 or 1°C.

The max. difference between channels 0,1°C.

Thermocouples

K, J, J/DIN, T, E, R and S

Accuracy 1 °C ± 1 digit. Types R,S 2 C ± 1 digit. Sensor wires have no effect below 1000 Ω .

Input 0/4...20 mA

Scalable range -999...9999. Automatic decimal point placement. Input resistance 15 Ω . Accuracy 0.02% FS.

Voltage inputs

Range -300...300.0 mV. Resolution 0.01 in range 0..99,99 mV. Floating decimal point selects max. accuracy of display in other ranges. Accuracy 0.02% FS.

Output 0/4...20 mA

The zero point and range is scaleable over the whole display range. Each channel has its own range. Settings on the front panel. Accuracy 0,05% of the display range + accuracy of input signal. Channel updating rate 0,1s. Optional galvanic isolation between input and output.

Alarms

Alarms selectable to any channel or all to one channel or one common relay alarm for all channels. Adjustable hysteresis.

2 inbuilt alarm relays, 230 VAC, 3 A.

Also available 5 logic alarms 60 V / 0,5 A (open collector) on separate card. Logic alarms can not be used simultaneously with Analog output card.

General features

Bright 4-digit, red LED display.

Digit height 14,5 mm.

Keypad on front panel.

Settings via front panel or.

Case dimensions 96 x 96 x 162 mm.

Panel cut out 91 x 91 mm.

Removable connectors, 1,5 mm².

Line voltage 230 V/115 VAC, 50/60 Hz

Weight 1,5 kg.

Optional cards

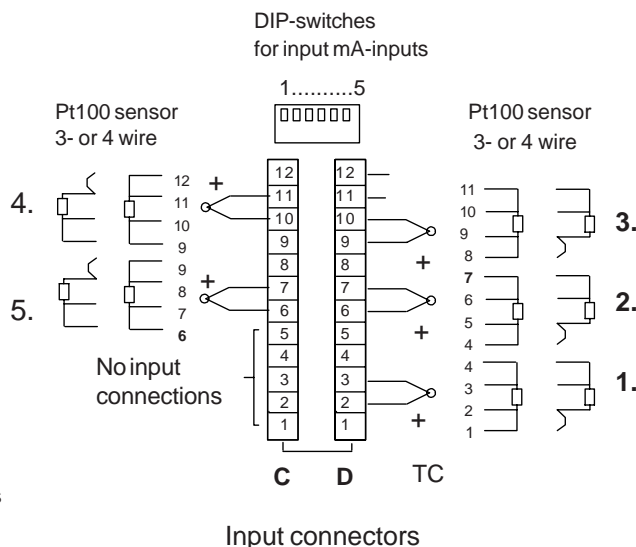
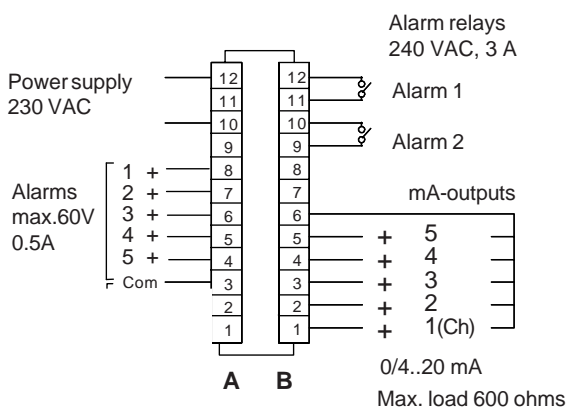
538-REL5 Alarm car for 5 reed relays

538-OUT Analog output, isolated 4...20 mA / 0...10 V

538-RS232 Serial Output

538-RS485 Serial Output

Connections:



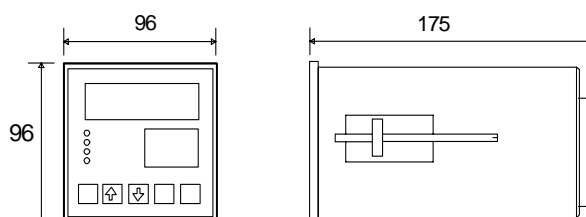
Note !

Connect 0/4...20 mA inputs as thermocouple inputs.

Dip-switches 1..5 (Ch1..Ch5) = ON-positions

Input resistance 50 ohms

Dimensions:



Cut out 91.5 x 91.5