

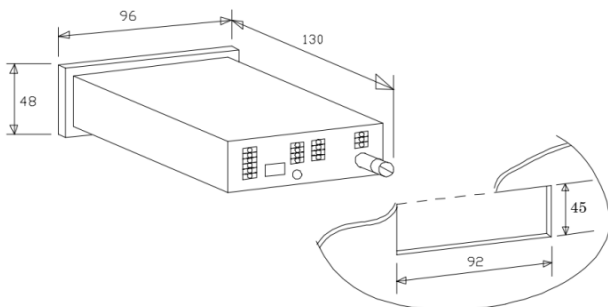
DP-152 2 CHANNEL PANEL METER

The DP-152 two channel panel meter is intended for temperature measurements with thermocouples or with resistance thermometers as well as other measurements with analogue units; voltage, current, and resistance inputs, it can be programmed to display results in linear or non-linear form. It is also possible to measure the difference between channels and display the mean value, and to scale the measurement ranges differently, linearly or non-linearly. The meter includes two adjustable alarm limits as standard and the direction of operation, hysteresis, and delay may be set. Alarm limits also provide relay contact closure control (on special order contact opening). The meter is also available with two additional adjustable



alarm limits with transistor controlled output, a 4-20 mA analogue output, and RS-232/RS-485 digital serial bus for two way operation. In the standard version the power supply is 230 V 50 Hz, but on separate order 24 VDC and 12 VDC versions are available.

The meter may also be used to supply power for transmitters analogue current outputs and additional relay control. Measurement values and the alarm state are shown in the 4 digit display and by front panel indicator lights. The display can also show maximum and minimum values. All selections and settings are done using the front panel push buttons.



TECHNICAL DETAILS

Display	4 numbers, 7 segments LED display, digit height 14 mm
Inputs	Can be found in the order information of the next page
Display targets	1) A/B – channels (min and max. values) 2) (A-B) or (A+B/2) (min. and max. values)
Measurement speed	> 5 measures / second
Alarm limits	1) two adjustable upper and lower limits with relay controls (su/av-peaks max. 230 V 2 A) 2) two additional limits with open circuit outputs
Analogy output	4-20 mA current signal, max. load 1 kohm / 48 V
Series interface	RS-232C or RS-485 series port
Accuracy	0,1% from the range +/-1 number
Operating temperature	0...+60 °C, effect <50 ppm/°C
Supply voltage	230 V 50 Hz, +/-10 % or 24VDC

DP-152 meter with freely programmable channel specific inputs:

- Pt-100 ohm, 2 or 3 wire connection direct display °C
- Thermocouple, types J, K tai S, direct display °C
- Voltage, ranges -10...+10 V, -1...+1 V or -100...+100 mV, scalable display
- Current, ranges 0...20 mA or 4...20 mA, scalable display
- Resistance, range 0...1400 ohm, scalable display