

## DP-152 2 CHANNEL PANEL METER



The DP-152 two channel panel meter is intended for temperature measurements with thermocouples or 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 direction of operation, hysteresis, and delay may be set. Alarm limits also provide

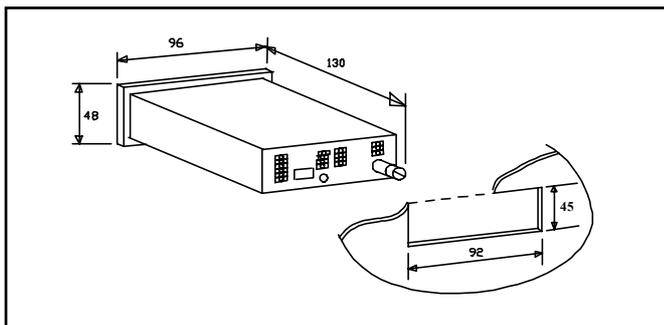
relay contact closure control (on special order contact opening). The meter is also available with two additional adjustable alarm limits with transistor controlled output, a 4-20 mA analogue output, and RS-232/RS-485 digital serial bus for two way operation. In the standard version the power supply 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.

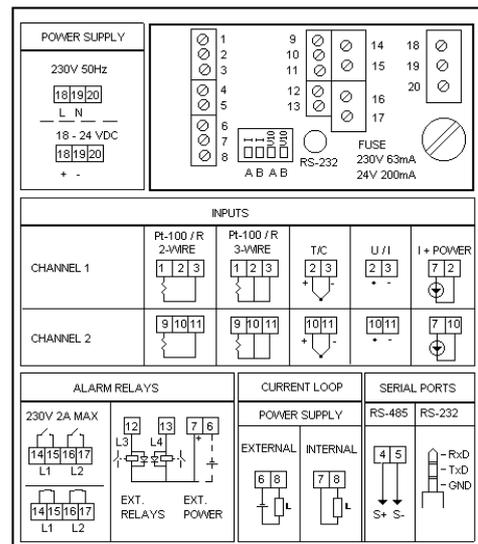
### TECHNICAL INFORMATION

|                            |   |
|----------------------------|---|
| Display:                   | 4 digit 7-segment LED display<br>character height 14 mm   |
| User selectable inputs:    | Temperature: Pt-100 ohm RTD (2 or 3 wire)<br>Thermocouple (J/K/S-types)<br><br>Other inputs: Voltage 0 - 0.1/1/10V<br>Current 0/4 - 20 mA<br>Resistance 0 - 1400 ohm<br><br>Linear/Non-linear scaling |
| Calculations:              | 1) A/B channels and min/max. values<br>2) (A-B) or (A+B)/2 and their min/max. values  |
| Meas. Speed:               | > 5 measurements/second   |
| Alarm limits:              | 1) two adjustable high-low limits,<br>relay outputs (open/close contacts) 230V 2A<br>2) two additional limits, open circuit output-option   |
| Analogue output (option)   | 4-20 mA current output, (max.1 kohm / 48 V)<br>Selectable (A,B or F)  |
| Serial connection (option) | RS-232C or RS-485 serial port   |
| Precision                  | 0,1% of range $\pm 1$ number  |
| Operating temp.            | 0...+60 °C, dependence < 50 ppm/°C  |
| Power supply:              | 230 V 50 Hz, $\pm 10\%$ or 24 VDC (option)  |

### CONSTRUCTION



### CONNECTIONS



### ORDER INFORMATION

|               |  |
|---------------|--|
| <b>DP-152</b> | 2 channel panel meter<br>-power supply 230V 50Hz |
|---------------|--|

#### ADDITIONAL EQUIPMENT:

|                |                          |
|----------------|--------------------------|
| <b>-C</b>      | 4-20 mA current output   |
| <b>-S2</b>     | RS-232 serial bus output |
| <b>-S4</b>     | RS-485 serial bus output |
| <b>-E2</b>     | Two additional limits    |
| <b>-P115</b>   | 115V 60Hz power supply   |
| <b>-P24</b>    | 24 VDC power supply      |
| <b>RU-2</b>    | 2 channel relay unit     |
| <b>CB-1</b>    | Surface mounting case    |
| <b>D3.PROG</b> | PC reading program       |