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DP-158 DATALOGGER

The DP-158 is a programmable 8, 16 or 32 channel measurement and alarm centre. In addition to measurement inputs the centre has inputs for 8 relay contact circuits. In addition to, the actual measurement and alarm operation, the centre is equipped with memory storage, inhibit, control, and report functions.

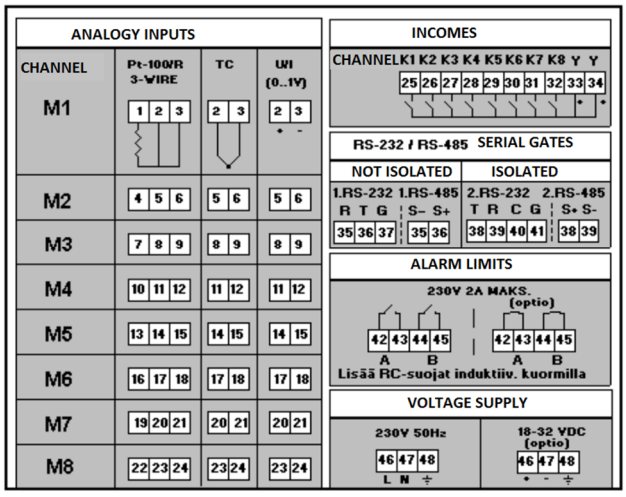
Measurement results are channel specific according to the users choice: temperature (Pt-100 ohm RTD / thermocouple) or voltage/current/resistance with scaleable display for pressure, humidity, flow, surface height and other measurements.

Relay contact inputs are voltage free, opening or closing contacts. Contact inputs are used either as independent alarm circuits or in measurement limit value operations for inhibiting or locking actions. Using the two serial outputs, the DP-158 centre may be connected to a PC or a printer, relay control units, parallel light board, as well as other data handling and transfer equipment.

Reading of values and programming uses the 2 x 20 character alphanumeric display and the 8 front panel push buttons. The center is also equipped with indicator lights to show the most important events and outputs.

The standard power supply is 230V 50Hz mains supply but on separate order the centre may be supplied with 18–36 VDC.

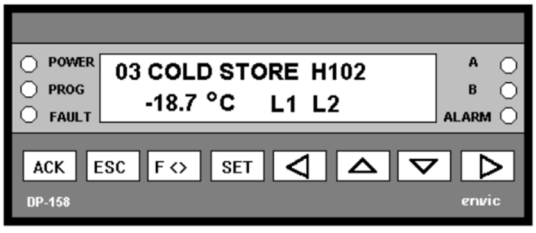
INTERFACES (8-DOT MODEL)



Thermo element measurements with automatic thermocouple compensation (internal Pt-100 ohm)

Serial gate installations

Gate 1	Gate 2
1200 Baud	9600 Baud
No parity	No parity
8 Databit	8 Databit
1 Stopbit	1 Stopbit



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DP-158 DATALOGGER

TECHNICAL DETAILS

Display	2 rows, 20 chars/row, alphanumeric background lit LCD display. Freely programmable inputs, outputs storage/reporting interval, limits in relation. To the various measurement points.
Inputs Pt-100 ohm Thermocouple element J, K, S Voltage 50/1000 mV Current 0/4...20 mA Resistance 0...1000 ohm	8 (16) analogue and contact inputs. Measurement operation and input selection/programm using the display and push buttons (or PC). Automatic or manual display stepping of the measured values. Resolution 0,1 °C, measurement range -200...+850 °C Resolution 0,1 °C, measurement range -260...1760 °C, automatic cold junction compensation Resolution 5/100 uV, input impedance > 100 Mohm Resolution µA input impedance 100 ohm Resolution 0,1 ohm
Outputs Serial port RS-232/485 Alarm operation	Two serial bus connections:one isolated for transferring measurement results to printer or PC, the second non-isolated, fo rrelay control units and/or parallel light boards. Both outputs selectable in RS-232 or RS-485 serial bus form. Priority (A/B), voltage free relay contact output (max. 48V 0,5A) Sensor break alarm drives an A-class transfer relay
Memories Measurement memory Alarm history Program memory	Measurement stored at a user selected intervals for trend information, memory capacity 7168 samples/channel. Reading/output of all values or at less frequent n x 2 sample intervals and the n last stored values. Max 64 last alarm occurences stored in history data base. Measurement parameters (inputsm soaling limits, time settings, point identification etc) stored in the nonvolitile memory
Alarm operation	Two adjustable measurement limits/channel, limit priotity, hysterisis delay and inhibit/lock settings. Additional external relay unit and parallel light board control possibility.
General	Power supply 230 V 50 Hz +/- 10 % or 18–36 VDC Meas. speed >8 measures/second Meas. precision 0,1 % +/- 1 number Operating temp. dependence < 50 ppm/°C Flush mounting case (144 x 72 x 139 mm) up. aukko 135 x 66 mm, syv. 120 mm Weight 400 g Spring connectors on the rear panel Operating temp. 0...+50 °C, storage temperature -20...+70 °C