

DM-102 PORTABLE MULTIMETER



DM-102 is portable meter with rechargeable battery. Because the meter is versatile, it fits into many different measurement needs. It suits into use of for example industrial and laboratories. Meter also suits for initialization-, conditions-, maintenance- and process-measurements.

Graphic display of the meter has a clear backup light. Steady screw locking plug in connection is also part of the basic set up. When attached two double sensors to the meter, it is possible to get four different variables into the one display at the same time. Meter also comes with real time clock and wide saving memory. Measurement results can be both read from the display of the meter and transferred with USB or wirelessly with Zig Bee or GPRS to the PC. Measurement results can be illustrated with Meslog-program.

TECHNICAL DETAILS

Display	Graphic LCD – display with backup light, 128 x 64 points
Sensor interfaces	2 pcs of 8 polars DIN – interfaces
Inputs	Envic – sensors for measuring temperature, air humidity, air flow rate and pressure. universal inputs for sensors Pt-100 and K-type thermocouple temperature sensors, 0-10 V voltage- and 4-20 mA current signals (scaling in the meter)
Measurement accuracy	0,1 % from the range with universal inputs, sensor accuracies have been announced in the sensor description
Datalogger	With manual- and time-starts, real time clock, memory/measurement channel of 75 000 measurement outcomes
USB-interface	For online-reading the memory and measurement outcomes
Charging	LiIon 3,7 V 100 mAh, loading from PC or from the separate charger
Meslog-D	PC-program for collecting measurement information

SENSORS

TAS-22 Air flow rate/ temperature sensor	THS-22 air humidity/temperature sensor	PS-22 Pressure sensor
Air flow rate: – measurement accuracy 0...20 m/s – accuracy 0,1-1,5 m/s +/- 3 % from the reading +/- 0,1 m/s Temperature: – measurement range -30 - +150 °C – accuracy +/- 0,2 °C	Air humidity: – measurement range 0-100 % RH – measurement accuracy +/- 2 % RH – temperature range -30...+85 °C, accuracy +/- 0,2 °C	– measurement range +/- 1000 Pa – measurement accuracy 0,2 % TN/1 % from the reading while the bigger runs – temperature dependency 0,005 % /TN/°C