

Precise Digital Measuring Device

PHYSICS 51

Digital measuring device for thermocouples (Type K, N, L, U, T, S), NTC resistance thermometers, infrared temperature probes, capacitive humidity probes, winged wheel, speed of rotation, frequency and speed of rotation as well as for the connection of voltage and current measuring units. Subject to type of probe 4 internal function channel data can be processed.

Technical data PHYSICS 51

Measuring input:	1 input channel
Galvanic isolation:	Semiconductor relays (50 V)
Channels:	4 channels/plugs for dual probes and function channels
AD converter:	Delta-Sigma 15 bit resolution
Output:	2 output channels
Display graphic:	128 x 64 pixel, 8 lines
Display illumination:	2 LEDs, white
Keyboard:	7 silicone keys
Batteries:	3 Mignon Alkaline
Mains adapter:	230 V (AC) to 12 V (DC), 200 mA, (galvanically isolated)
DC adapter cable:	10-30 V, 0,25 A (galvanically isolated)
Casing:	ABS (max. 70 °C), light grey
Operating temperature:	-10 to +60 °C
Operating air humidity:	10 to 90 % R.H. (non condensing)
Dimensions and weight:	L 127 x W 83 x H 42 mm, 290 g
Ref-No.:	59235

Additional order no.:

...../03 with works certificate (for the measuring unit temperature)
/04 with DKD certificate (for the measuring unit temperature)



Technical features

- Compact shape and ergonomic design
- 1 input channel for thermocouples, NTC resistance thermometers, humidity probes etc.
- Measuring functions: measuring value, zero-setting, max./min. value documentation
- 2-step adjustment, scaling
(optional: multi-point calibration for temperature values)
- Interfaces: USB, RS232, Ethernet, Bluetooth, analog
- Test functions: segment monitoring, range monitoring, sensor breakage indication, battery voltage check and display
- Memory plug with MM Card connectable
- Sleep mode for long-term documentations
- Language selection: German, English, French
- DKD calibration certificate available
(for the measuring unit temperature)

Ludwig Schneider

High-precision measuring instruments for temperature and density

Accessories for digital measuring device

PHYSICS 51

Beside the accessories shown on this page we offer a wide program of probes for the digital measuring device PHYSICS 51 (see our separate data sheets).

Available accessories	Ref.-No.
Mains adapter 230 V, 200 mA	57090
Mains adapter 115 V, 300 mA (US)	58802
USB cable (galvanically isolated, max. 115.2 kB)	57091
RS232 cable (galvanically isolated, max. 115.2 kB)	55855
Ethernet cable (galvanically isolated, max. 115.2 kB)	57512
Bluetooth adapter plug, class 2	58321
Memory plug with MM card for further measuring values	57733
Software PHYSICS view	58306



Case for digital measuring device and accessories

Stable hard protective case with foam inserts (without content)

Ref.-No.: 57844



Holster for digital measuring device

Stable protective cover (grey) with combi-bracket for standing/hanging

Ref.-No.: 58804

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