

Precise and Highly Variable Digital Measuring Device PHYSICS 300

Complex digital measuring device with data logger function for precise measurements in meteorology, water analytics, chemistry, biotechnology, industry, research and development etc.

Measurement units PHYSICS 300

mbar, Pa, lux, °C, °F, Hz, kJ/kg, %H, ppm, mA, V, min, W/m², mS, bar, g/Kg, m/s, pH

With PHYSICS 300 a wide variety of measurement tasks and functions is achievable e.g. temperature (Pt100, thermocouples, NTC, infrared), air humidity, air flow, pressure, power, flow rate, electrical values etc. Up to 3 channels or 3 measuring points can be covered simultaneously and subject to type of probe 4 internal per function channels can be processed.

Technical data PHYSICS 300

Measuring input:	3 input channels for some 65 measuring units
Galvanic isolation:	Semiconductor relays (50 V)
Kanäle:	4 channels/plugs for dual probes and function channels, 4 internal channels (e.g. balance/channel)
AD converter:	Delta-Sigma 16 bit, 2,5 or 10 M/s
Probe voltage:	Battery: 9 V, max. 150 mA, Mains adapter: 12 V, max. 150 mA
Output:	2 output channels for analog, data, trigger, relay cable, memory modules etc.)
Display graphic:	128 x 64 pixel, 8 lines
Display illumination:	2 LEDs, white
Keyboard:	7 silicone keys
Internal memory:	59 kB EEPROM (12000 values)
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
Dimensions and weight:	L 127 x W 83 x H 42 mm, 290 g
Ref-No.:	59234

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
- 3 galvanically separated input channels, various measuring units
- Intelligent probe display with probe specific functions
- Resolution options 0,01 or 0,1
- Measuring functions: measuring value, zero-setting, set-point adjustment
- 2-step adjustment, scaling (optional: multi-point calibration for temperature values)
- Functions: max./min. value documentation
- Average value by time, single values or Measuring points
- Measuring menu free programmable (numeric or graph display)
- Interfaces: USB, RS232, Ethernet, analog
- Memory (various data logger functions programmable)
 - Internal: EEPROM memory for up to 12000 values (as linear or ring memory configurable)
 - External: 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 300

Beside the accessories shown on this page we offer a wide program of probes for the digital measuring device PHYSICS 300 (see our separate data sheets)

Please refer to these data sheets by indication of your measuring task eg. temperature, air humidity, air flow, pressure, power, flow rate, electrical values etc.

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

Ludwig Schneider 

Ludwig Schneider GmbH & Co. KG

Postfach 15 61 · 97865 Wertheim

Am Eichamt 4 · 97877 Wertheim

Tel.: +49-93 42- 85 60-0 · Fax: +49-93 42-8 46 71

e-Mail: info@ludwig-schneider.de

www.ludwig-schneider.com