



Pt100 High precision thermometer for changeable probe

The measuring process with the help of Pt100 platinum resistance is one of the most accurate electrical temperature measuring methods and has been well established as the industry standard for precise temperature measurement. Features, like wide measuring range of -200 to 850 °C and high long-term stability, speak itself of its specialities.

Our Pt100 precision thermometer works on 4-wire measurement method, in which the precision is not affected by the length and resistance of connecting wires. With the plug-in type of probe, even for special applications, good options are available in the area of temperature probes.

In systems with calibrated probes, our devices meet the highest accuracy requirements and if desired, a DKD calibration certificate is also provided along with the instrument!



Pt100 precision thermometer HM710, efficient thermometer with connection socket for external PT100 changeable probe, high resolution and accuracy, wider measuring range -200 ... +850 °C, zero point and gradient correction, interchangeable measuring systems of °C and °F, Min/Max value memory, automatic switch off, 2 x 4½-digit display, PC-interface, analog output

HM710 107.20 €



Pt100 precision thermometer HM750, all features of HM 710 and additionally: Input of application specific characteristics with up to 50 base points, 2 Logger functions (data recording), Min/Max alarm with alarm generator, real time clock with calendar

HM750 180.90 €



HM750-SET1 including factory calibration certificate: optimised measuring range -20 ... +70 °C, temperature probe Pt100 in 4-wire system with handle, system accuracy better than 0.07 °C, calibration point -20 °C / 0 °C / 70 °C, Scope of supply: Instrument with probe in carry case

HM750-SET1 345.00 €



HM750-SET2 including factory calibration certificate: Optimised measuring range 0 ... 250 °C, temperature probe Pt100 in 4-wire system with handle, system accuracy better than 0.3 °C, calibration point 0 °C / 100 °C / 250 °C, Scope of supply: Instrument with probe in carry case

HM750-SET2 395.00 €



HM750-SET3 including factory calibration certificate: Optimised measuring range 0 ... 500 °C, temperature probe Pt100 in 4-wire system with handle, HF-PT100-TF500, system accuracy better than 0.5 °C, calibration point 0 °C / 250 °C / 500 °C, Scope of supply: Instrument with probe in carry case

HM750-SET3 420.00 €

Do you have any specific requirements? You can get many other instruments and accessories from us for precise temperature measurement. Please let us know your job requirements, we would be pleased to provide you a solution - free of charge without any obligation!

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Measuring probe PT100, preferred range

PT100 probes are used as the standard measuring devices for achieving high measuring accuracy in industries and also in research and science. The PT100 measuring element has an outstanding precision and long-term stability, and hence, are also suitable for meticulous, traceable reference measurements in laboratories.

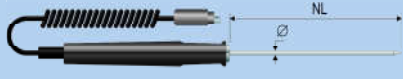
All our measuring probes are fitted with 1/3 DIN or 1/10 DIN precision resistance in four-wire system. The connection leads are of 4-core shielded cable and provided with MINI-DIN plug for direct connection to our handy instrument and measuring system. The handy probe has a spiral cable with 1.2 m expanded length.

The characteristics are as per DIN EN 60751 and the probes are interchangeable within the specified tolerance limits of the standard. During calibration of the probe-instrument combination, an accuracy of up to 0.03 K can be achieved.



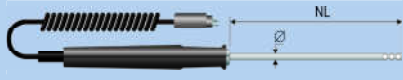
Robust dip type probe with handle, high quality V4A protection tube (1.4571), food grade, sterilizable, temperature range of $-50 \dots +500$ °C, response time 8s, probe tube length 130 mm, \varnothing 3 mm, measuring element PT100 1/3 or 1/10 DIN

TF-PT100/3-TF130/3-HG (1/3 DIN) 36.50 €
TF-PT100/10-TF130/3-HG (1/10 DIN) 96.50 €



Plug-in probe with centre tip and handle, measuring element PT100 1/3 DIN, high quality V4A protection tube (1.4571), food grade, sterilizable, temperature range of $-50 \dots +500$ °C, response time 8s, probe tube length 130 mm, \varnothing 3 mm, centre tip 22°

TF-PT100/3-EF130/3-HG 39.70 €



Gas and air probe, mechanically protected measuring element PT100 1/3 DIN in perforated V4A protection tube (1.4571), temperature range of $-50 \dots +400$ °C, response time 20s, probe tube length 130 mm, \varnothing 4.7 mm

TF-PT100/3-LF130/3-HG 58.55 €

The models shown above in this pricelist are preferred types and available ex-stock at a short notice. In addition, we can also supply you a variety of further designs. Do you have any special requirements? Please refer to us; we would like to give you an offer - free of charge and without any obligation!


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Port converter and Software


A remarkable feature of the HYGROSENS handy measuring instrument is the integrated interface: With the help of a PC and our software PCLOG, the results of measurement are automatically documented in graphical form. The evaluation of data is done through various other tools, for example EXCEL™ or Matlab™.

Together with the software Profilab, complex device controls and automation jobs can be handled with a simple graphical programming environment. Automate your laboratory activities in no time without writing a single line of program code!




RS-232 port converter for galvanically isolated connection of HYGROSENS handy measuring instruments of HM-series to the serial port of a PC; converter supplied over the port; connection with a 9-pin Sub-D socket.

HM-SERINT **41.00 €**




5-way, RS 232 port converter for galvanic isolation of 5 handy measuring instruments of HM-series to the serial interface of a PC, power supply through the included plug-in power supply, Scope of supply: 9-pin, Sub D-connection cable, measuring instrument with 1 m connection cable, power supply unit!

HM-SERINT5 **87.25 €**



USB port converter for connection of HYGROSENS handy measuring instruments of HM-series to the USB port of a PC; converter supplied over the USB port; connection USB-plug type B; Scope of supply inclusive of driver CD for different operating systems

HM-USBINT **41.00 €**



Adapter for connection of RS 232 devices at the USB-port, 9-pin plug on USB-plug type B

ADA-RS232-USB **22.00 €**
Connection adapter (25-pin Sub D-plug on 9-pin Sub D-socket)

ADA-25S-9B **1.55 €**
Connection adapter (9-pin Sub D-plug on 25-pin Sub D-socket)

ADA-9S-25B **1.55 €**

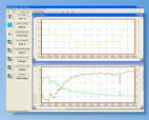
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	<p>Windows-Software PCLOG, Easy-to-use online screen data logger for data recording, visualising and archiving of measuring data, integrated hx-calculator for thermodynamics humidity calculation, efficient print functions for documentation of curves, user friendly export functions over the clipboard for other window based softwares (OLE), limit value monitoring, acoustic warning signals, Control and switching functions over relay cards, virtual channels, formula editor for calculation and many more features. System requirements: Windows 98 or XP</p> <p>PCLOG-HM 33.62 €</p>
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	<p>Windows-Software PROFILAB, universal measuring system and control software for professional applications, graphical programming with virtual instruments, extensive library of arithmetic and logical components, modules and virtual instruments. Operation through self-designed front end. Integration of measurements from external instrument in the regulation process, expert full version with compiler. System requirements: Windows 98 or XP</p> <p>PROFILAB 86.16 €</p>
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	<p>Driver-DLL for the Handy instrument, Windows-function library for port communication between instrument of HM-series and user's own Windows based application software</p> <p>HM-DLL 53.90 €</p>
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	<p>Universal USB Relay/Input card, two separate relay groups, each with 4 high rating relays 230 V / 8 A, eight potentially isolated inputs over opto-coupler for processing with "PROFILAB", Watchdog for protective tripping on communication failure, handy circuit, suitable for mounting in switchgear cabinet, 12 V operating voltage, a power supply unit (Ordering No. NG-12V-HQ) and a USB-cable (Ordering No. KAB-USB) are required for operation.</p> <p>USB-REL8-IN8-12V 85.34 €</p>
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Many other I/O-cards are also available for Profilab. Please ask for our detailed data sheet!

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Accessories for Handy measuring instrument

From us, you get the complete measuring system from a single source: In addition to the ready-to-connect precise measuring probes, we also offer an extensive range of accessories starting from matching protection bags to switching and regulation module.

	<p>Spare battery 9 V, Type IEC 6F22, high quality alkali Manganese cell, Mercury and Cadmium free, 660 mAh, 3 years shelf life</p> <p>BATT-9VB 1.90 €</p>
	<p>Accumulator 9 V, as an alternative to battery for continuous operation, high quality NiMH-model without memory-effect, high energy density, quick charging type, 500 cycles, capacity 200 mAh</p> <p>AKKU-9V-NIMH 10.55 €</p>
	<p>Charging unit for 1.2 V and 9 V accumulator NiCd and NiMH, Simultaneous quick charging of up to 4 cells, micro-controller based, auto diagnostics, refresh cycle, world wide compatible for input voltage range of 100... 240 VS and included mains adapter</p> <p>LADGE-NIMH 59.00 €</p>
	<p>Plug-in power supply unit 12 V / 670 mA, high quality model, GS-certified, suitable for handy measuring instrument of HM-series, energy saving switch mode power supply unit with low no-load current, wide input voltage range 100 ... 240 V AC, 1.7 m connection cable with DC plug 5.5 / 2.1 mm, compact design 86 x 62 x 30 mm, RoHS conformance</p> <p>NG-12V-HQ 17.20 €</p>
	<p>Switching module for handy measuring instrument, suitable for all instruments of the series HM with alarm functionality, adjustment of trigger levels is done on the instrument with the MIN/MAX value, the control of switching module is done through the serial interface, alternative alarm or regulation output, switching mode Normally open (NO) or Normally closed (NC), voltage supply 230 V, switched output plug point 230 V</p> <p>HM-AM3000 91.00 €</p>

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	<p>Device protection bag of foam leather, robustly built, with window cut-out for display and keyboard, a punched hole for sensor connection, suitable for HM110, HM150, HM160-12, HM180-18, HM 410, HM430, HM610, HM630, HM691; HM710, HM750</p> <p>HM-ST-R1 19.50 €</p>
	<p>System carry case, for optimum protection of the measuring instrument, matching as per size for one or two instrument of HM-series and accessories, with foam material packing in the base with moulded pockets, supplied with bubble packing cover</p> <p>ZUB-KOF-HM1 (275 x 229 x 83 mm) 12.55 € ZUB-KOF-HM2 (394 x 294 x 106 mm) 26.75 € ZUB-KOF-HM3 (450 x 360 x 123 mm) 33.10 €</p>
	<p>Magnet holder, to be screwed at the belt clip of handy measuring instrument, enables easy handling during measurement and mounting.</p> <p>HM-MAGHA 5.95 €</p>
<p>Have you found everything that you need? This price list does not cover all the articles. Please contact us for your requirements of specific components; we can certainly help you further!</p>	

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