

Meteo Station HM30

**for pressure,
humidity, temperature
and altitude**

Application

- Meteorology
- Heating/ventilation/air conditioning
- Measurement technique
- Geology, geodesy
- Aviation
- Mountaineering

Your benefit

- Compact, multi-function measuring instrument for climatic data, for on site use at any time
- Several meteo parameters can be observed, measured and evaluated
- Simultaneous display of barometric pressure, humidity, temperature 1 and temperature 2
- Datalogging with real time clock
- Data transfer to PC
- PC remote control facility
- Data printout possible without PC
- Windows supported software
- Measured values provide basis for accurate decision-making

Performance features

- Barometric pressure/barometer/QNH
- Humidity/air temperature with combined sensor
- Second temperature with insertion sensor
- Dewpoint determination
- Altitude measurement
- Difference measurement
- Trend indication
- Peak value storage, max/min
- Hold and Zoom function
- RS232 interface
- Connection for plug-in mains supply unit
- Battery voltage indication
- Splash-proof ABS case (IP54)
- 12 months guarantee



Technical data

Measuring media	
- combined sensor 1	air
- temp. sensor 2	water and soft plastic media, compatible with stainless steel V4A
Units of measurement	
- barometric pressure	mbar, hPa, mmHg, inHg, inH ₂ O, psia
- humidity	% rF, % rH
- temperature	°C, °F
- altitude	m, ft
- trend	.../h, .../min
Temp. calibration:	-20 °C...+60 °C
Operating temperature:	-20 °C...+60 °C
Humidity:	0 to 95 % rH, non condensing
Meas. rate with PC:	25 readings / second
Current consumption:	without sensors < 12 mA temp. sensor 1 mA combined sensor 4 mA
Supply:	9 V battery (IEC 6LR61), accu. or power supply unit
Battery life:	continuous operation, up to 48 h
Autom. cut-out time	continuous operation, 1, 10, 30, 60 min.
Memory interval:	manual, 1 sec to 24 h (15 possibilities)
Memory size:	max 908 measurements
Case, type of prot.:	IP 54
Case dimension:	152 x 83 x 34/29 mm
Weight incl. battery:	275 g (less sensors)
Weight of sensors:	185 g

Software

THOMMEN Climate SW HM30

The THOMMEN Climate SW HM30 offers the facility to display measured values of the THOMMEN Meteo Station HM30 on the PC. The program is ideal for all who wish to observe, record and evaluate climatic data in real time.

Barometric pressure, altitude, humidity and temperature can be displayed simultaneously in digital and in graphic form. The measured values can be stored on the PC and are buffered to prevent loss in the case of a power supply failure. In addition, the measuring interval is selectable for long-term measurements. The evaluation of the data permits the print-out of graphics and lists or transfer to other Windows applications. The Meteo Station HM30 can be individually configured from the PC. Stored values from the HM30 datalogging can be input into the PC and stored, evaluation taking place as with the real time measurement. The user of the Climate SW HM30 therefore has a very simple way of observing, recording and evaluating climatic measured values. In this he is supported by further functions such as programmable alarm values, mean value, difference and min./max. values.

The software is multilingual, runs on Windows 3.1 and Windows 95. A Pentium PC with 8 MB RAM is recommended. A 30 day program version is available.

Parameter	Measuring ranges	Resolution	Error limit F.S. ± 1 digit
barometric pressure	225... 1125 hPa abs	0,1 hPa	± 1 hPa
humidity	0... 100% rH	0,1% rH	$\pm 1,5\%$ rH
temperature	combined sensor 1 temp. sensor 2	0,1 °C	$\pm 0,3$ °
		0,1 °C	$\pm 0,3$ °C
altitude	-500.. 10 000 m	1 m	± 10 m
			± 2 m ($\Delta < 500$ m)

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I-HM30-E/0700 Art. Nr. 70 794 056



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