Meteo Station HM30

for pressure, humidity, temperature and altitude

Application
- Meteorology
- Heating/ventilation/air conditioning
- Measurement technique
- Geology, geodesy
- Aviation
- Mountaineering
- Hospitals
- Chemical and pharmaceutical industries

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

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	± 1,5% rH
temperature combined sensor 1	-40... +60 °C	0,1 °C	± 0,3 °C
temp. sensor 2	-50... +200 °C	0,1 °C	± 0,3 °C
altitude	-500.. 10 000 m	1 m	± 10 m
			± 2 m (Δ < 500 m)

Software

The THOMMEN Climate software offers the facility to display measured values of the THOMMEN Meteo Station HM30 on the PC. The program is monitoring, recording and evaluating 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 in any PC and are buffered to prevent loss in the case of a power supply failure. In addition, the measuring interval is changeable for long-term measurements. The evaluation of the data allows the printouts of graphics and lists or transfers to other Windows applications. The Meteo Station HM30 can be individually configured from the PC. Stored values of the HM30 datalogging can be transferred to any PC. There are even more functions available such as programm- able alarm values, averages, differences and min./max. values.

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_2O, 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
- switch off time	continuous operation, 1, 10, 30, 60 min.
- Memory interval:	manual, 1 s 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