HUBER INSTRUMENTE AG, Grellingerstrasse 23, CH-4208 Nunningen

Meteo Station

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 onsite 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 realtime clock
- Data transfer to PC
- PC remote control facility
- Data printout possible without PC
- Windows supported software
- Measured values provide basis for accurate

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

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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 programmable alarm values, averages, differences and min./max. values.

Measuring media

- Combined sensor 1:

  air

- Temperature sensor 2:

  water and soft plastic media, compatible with stainless steel V4A

Technical Data

- Barometric pressure: mbar, hPa, mmHg, inHg, inH_2O, psia
- Humidity: % rF, % rH
- Temperature: °C, °F
- Altitude: m, ft
- Trend: .../h, .../min
- Calibration: -20 °C... +60 °C
- Operating temperature: -20 °C... +60 °C
- Humidity: 0 to 95 % rH, non-condensing
- Measuring rate with PC: 25 readings/second
- Current consumption: without sensors <12 mA temp. sensor 1mA combined sensor 4 mA
- Supply: 9V battery (IEC6LR61), accumulator 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,1s to 24 h (15 possibilities)
- Memory size: max. 908 measurements
- Case, type of protection: IP54
- Case dimension: 152 x 83 x 34/29mm
- Weight incl. battery: 275 grams (less sensors)
- Weight of sensors: 185 grams

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
temperature 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)