



ENGLISH

Datasheet

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RS-1160 / RS-1161

Thermo / Hygro / Barometer



FEATURES

- Triple LCD displays Barometric pressure, Temperature, and Relative humidity.
- Dew point and Wet bulb temperature reading.
- Absolute humidity, Mixing ratio and Enthalpy reading.
- Water vapor pressure and Water saturation pressure reading.
- Pressure trend and tendency (P_{3h}) reading.
- Heat Index and Humidex reading.
- MAX/MIN with Time Stamp.
- Comparator function.
- Alarm output function.
- Auto power off function.
- Data Hold function.
- Manual data memory and read function.
- Auto data logger function. (1161)
- USB Interface. (1161)

SPECIFICATIONS

Measurement range	Humidity : 0% to 100%RH Temperature : -40°C to + 100°C (-40°F to +212°F) Atmospheric pressure : 300 to 1200hPa
Resolution	0.1% RH, 0.1°C, 0.1°F, 0.1hPa
Accuracy	Temperature : ±0.4°C (at +5°C to +60°C) ±0.8°C (at -20°C to 5°C and +60°C to +80°C) ±1.2°C (at -40°C to -20°C and +80°C to +100°C) ±0.8°F (at +41°F to +140°F) ±1.6°F (at -4°F to 41°F and +140°F to +176°F) ±2.4°F (at -40°F to -4°F and +176°F to +212°F) Humidity : ±3%RH (at 25°C, 20 to 80% RH) ±4%RH (at 25°C, 10 to 20% RH and 80 to 90% RH). ±5%RH (at 25°C, 0 to 10% RH and 90 to 100% RH). Atmospheric pressure : ±2hPa at 25°C, ±4hPa at -20 to 85°C
Response time (at 1m/s air flow)	Humidity : $\tau_{63\%}$ < 10s (from 33 to 75% RH) Temperature : $\tau_{63\%}$ < 10s (from 15°C to 45°C)
Display refresh rate	1s in FAST mode, 1s to 5s in dynamic mode
Data memory capacity	99 sets. (Direct reading from LCD display)
Data logger capacity	microSD CARD 4GB (Maximum 200 blocks) (1161)
Alarm output	Open-collect output. Input impedance: 490Ω Maximum applied Voltage: 24V DC Maximum drive current: 50mA DC
Operating temperature and humidity	0°C to 60°C, below 95% RH
Storage temperature and humidity	-10°C to 60°C, below 70% RH
Power supply	006P 9V or IEC6F22, NEDA 1604 battery
Battery life	Approx. 2 months
Dimensions	249x64x26mm (9.8"x2.52"x1.02")
Weight	Approx. 178g (6.3oz)
Accessories	Instruction manual, Battery, Carrying case, CD software (1161) , Micro-USB cable (1161) .
Optional accessory	AC adaptor DC9V (1161)