

Datasheet

**Stock No. 127-8296 / 127-8297**

**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

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