



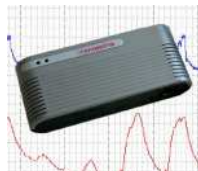
The **HygroGuard 10 or 20** is a new generation of cost effective, precise air humidity and temperature data logging instruments. They can be used for all applications where continuous monitoring of climatic conditions for a very long period of time is required. Thanks to the long battery life of typically 2 years, up to **120'000 data points** can be stored. The evaluation and configuration is done by the SmartGraph 2 software tool, included with the instrument. This can be installed on a Windows based PC or Laptop. The application range is extended from pure industrial data logging to the heating, ventilation and airconditioning industries, as well as for private use. The standard SmartGraph 2 software can be extended, in order to permit use in the pharmaceutical and chemical industry with more strict regulations and requirements (e.g. CFR 21 part 11 compliance). The HygroGuard is the ideal climate data recording system for HVAC-installations, process controls in quality assurance, or in the food, machinery, electronics & drug industry as well as in storage, transportation etc.

Relative air humidity:	10...95% rh (<i>non condensing</i>)
Temperature:	-20...50°C
Accuracy:	+/- 3.0% rh 10...90% rh (<i>without chemical contamination</i>) +/- 0.3°C 0...40°C otherwise +/-0.5°C
Measuring hysteresis:	approx. 1...1.5% rh (<i>capacitive measuring cell</i>)
Resolution:	0.1...0.2°C / 0.1...0.2% rh
Display:	large LC-Display with date / time (<i>only HygroGuard 20</i>) relative air humidity / temperature, logger status, 2 visual alarms
Communication:	RS 232 interface for on-line data evaluation or data transfer of recorded climate data.

Typical Applications for the **HygroGuard 10 or 20**:

- Long-term monitoring and servicing in HVAC systems
- Quality control in industrial processes in all industrial applications
- Climate control in museums, archives, libraries, storage rooms
- Online monitoring with long-term recording via digital interface
- Building air measurements (offices, lecture halls, production)
- Pharmaceuticals, chemistry, biology, food processing.

HygroGuard 10:



Dimensions: 110x54x25mm
Weight: 100 g
Power supply: 1 x 3.6V Lithium primary battery

HygroGuard 20:



Dimensions: 110x115x25mm
Weight: 220 g
Power supply: 1 x 3.6V Lithium primary battery

Humidity measurement:	Capacitive humidity measuring cell Measuring range: 10...95% rF (<i>not condensing</i>) Accuracy: +/- 3.0%rh 10...90%rh Measuring hysteresis: ca. 1...1.5% rh Speed: T90 < 10 sec.
Temperature measurement:	Accurate NTC resistance Measuring range: -20...50°C Accuracy: +/- 0.3°C (0...40°C), otherwise: +/- 0.5°C

Note: Sensor system is based on a capacitive humidity measuring cell. Additional protection filters are not available. The use of the instruments therefore is limited to the measurement of standardised air, harmless for humans. Problems may occur with higher concentrations of eg. acids, bases, ammonia, alcohols!