

H-0157

Product code: 003827



Main Features

- Relative humidity
- Accuracy
- Low power
- Corrosion resistance
- Plug and play

H-0157 is an hygrometer designed and manufactured by PULSONIC that provides reliable relative humidity measurement for all weather applications. Low power consumption, reliable, easy to install and maintain, it has all the necessary features to meet the expectations of meteorological services.

H-0157 provides reliable and stable air humidity measurements, perfectly suited for demanding meteorological applications.

Typically installed in a meteorological radiation shield, **H-0157** ensures precise and consistent humidity readings under diverse climatic conditions.

Its upgraded mechanical design withstands harsh outdoor environments,

providing excellent corrosion resistance and long-term durability.

Easy maintenance

For simplified servicing, **H-0157** features a waterproof connector that enables quick disconnection from its cable—without tools or complex operations. The sensor's filter holder is designed for effortless screwing and unscrewing, allowing easy annual replacement of the

protective filter.

Plug and play

The **H-0157** integrates PULSONIC's proprietary "plug & play" technology. It stores its own factory-set calibration coefficients and automatically transmits them to the data acquisition unit upon connection. This reduces downtime during field maintenance and eliminates recalibration needs after replacement.

Technical specifications

Relative humidity

Measurement range	0 to 100%
Resolution	1%
Accuracy	(0-90%) $\pm 2\%$ (0-100%) $\pm 3\%$
Stability	$\pm 1\%$
Long term stability (5 years at 50% humidity)	$\pm 0.05\%$
Response time	6s

Accessories / Maintenance

Weather shelter Y	Clean when necessary
Mounting bracket for Y-shelter	Adjust if necessary
Filter	Replace annually
Calibration	Annually

Data generated* (Compliant WMO)

Instantaneous humidity (%)
Average instantaneous humidity (%)
Minimum humidity (%)
Maximum humidity (%)
Duration of humidity greater than or equal to 90% (min)
Duration of humidity greater than or equal to 80% (min)
Duration of humidity between 80% and 90% (min)
Duration of humidity less than or equal to 40% (min)
Dew point (°C)

*Data generated by the P4-100 data logger

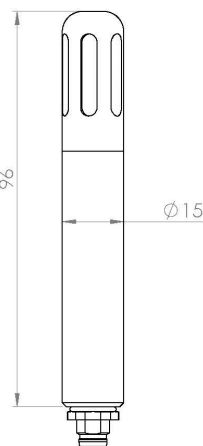


General specifications

Supply voltage	5V
Supply current	105 μ A
Communication protocol	PULSONIC LAN
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Dimensions	$\varnothing 15 \times 96$ mm
weight	20g
Filter	Hydrophobic glass fibre
Sensor connector	M8 male, 5 pins
Cable connector	M8 female, 5 pins M8 male, 3 pins
Cable length	1.4 m
Packaging	Individual anti-static protection bag
Delivered with	Calibration certificate (ISO 17025 traceable)

Ordering Codes

003827	Hygrometer with 1.4 m cable (Sensor only)
003822	Full kit: Pt-100 probe + Sensor H-0157 + cable + Y-shelter + support tube for PULSIA solar generator box
003485	M8 3-pins to M8 5-pins cable – Length: 1.4 m
003274	Mounting support for installation inside Y-shelter



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