TH-0155

Product code: 003075

LowPower
LP
Technology

Main Features

o Air temperature and relative humidity

o Accuracy

o Low power

o Easy maintenance

o Plug and play

TH-0155 is a thermo-hygrometer designed and manufactured by PULSONIC that provides reliable temperature and 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.

TH-0155 is a sensor for measuring air humidity and temperature. **TH-0155** can be configured as a hygrometer or as a thermo-hygrometer.

Installed in a weather shelter

The weather shelter ensure sthat the sensor is protected from external elements, such as direct sunlight, rain, and wind, which can affect the accuracy. **TH-0155** provide precise and reliable readings of air temperature and humidity, meeting the standards and demands of various meteorological applications.

Easy maintenance

TH-0155 is equipped with a waterproof connector for easy and quick disconnection from the cable for maintenance purposes. PULSONIC recommends an annual calibration and adjustment. The filter holder is easily screwed and unscrewed to allow the filter to be changed every year.

Plug and play

TH-0155 features PULSONIC's "plug & play" technology. **TH-0155** embeds its adjustment coefficients and makes them available to the central acquisition unit so that it takes them into account. This greatly facilitates maintenance operations in the field!

Technical specifications

Temperature

Measurement range	-30°C to +50°C
Resolution	0,1°C
Accuracy	± 0,3°C
Stability	± 0,2°C
Measurement method	Digital

Relative humidity

Measurement range	0 to 100%
Resolution	1%
Accuracy	±3%
Stability	±1%
Long term stability (5 years at 50% humidity)	±0,05%
Response time	6s

Accessories / Maintenance

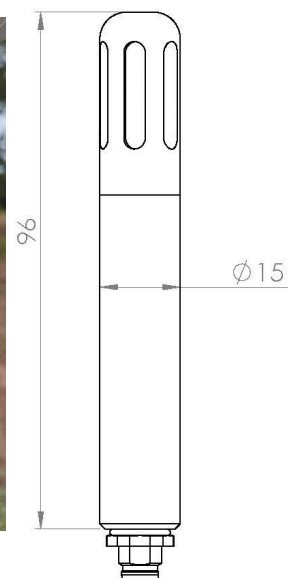|	
Weather shelter Y	to be cleaned if necessary
Mounting bracket for Y-shelter	to be cleaned if necessary
Filter	To be changed every year
Calibration	Every year
Cable	M8 male 5 points

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

Supply voltage	5V
Supply current	105µA
Communication protocol	PULSONIC LAN
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Dimensions	Ø18 x 85 mm
Weight	20g
Type of filter	Hydrophobic glass fibre

96

Ø15

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