



munisense

Weather station / Rain meter

The TH weather station - based on the Davis AeroCone® precipitation meter - is a stand-alone weather station that transmits all measurement data via the mobile LTE-M network directly to the Munisense INSIGHTNOW™ platform.

The aerodynamically designed Davis AeroCone collector reduces wind-induced errors. The sophisticated contours of the collecting tray streamline the air flow and reduce flow distortions.

In addition, the specific design of the collector improves the accuracy of precipitation data in high wind situations where the horizontal wind speed can lead to underreporting. Furthermore, the carefully designed interior prevents splashing water during heavy rain. The strainer locks into the collection bin so it stays in place during high winds and heavy rainfall.

The precipitation meter, with the self-emptying tipping spoon, is exceptionally accurate. This is calibrated for measurements with an accuracy of 0.2 mm.

The TH weather station can easily be leveled thanks to the spirit level built into the base.

The precipitation meter naturally complies with the guidelines of the World Meteorological Organization (WMO).

Weather station with integrated communication

In addition to precipitation, the precipitation meter also measures temperature, relative humidity and air pressure, making it a complete weather station.

The TH weather station can operate on its internal battery for many months or years, depending on the data update frequency with the INSIGHTNOW™ platform.

Easy to install

Operates for years on one battery

Communication integrated in the precipitation meter

Complete weather station: also measures temperature, relative humidity and air pressure



Specifications weather station / rain meter	TH9
Specifications measurements	
Precipitation	
Intensity, every 10 min.	mm/hour
Total per hour	mm
Total per day	mm
Measurement range	0 to 100 mm/hour
Accuracy	±5% between 0,2 and 100 mm/hour
Resolution	0,2 mm
Temperature, every 10 min.	
Measurement range	-40 - 85 °C
Accuracy	1 °C
Relative Humidity, every 10 min.	
Measurement range	0-100%
Accuracy	3%
Air pressure, every 10 min.	
Measurement range	300-1100 HPa
Absolute accuracy	1 HPa
Relative accuracy	0,1 HPa
Reporting interval measurement data	1x per 24 hour (standard) max. 1x per 10 minutes
Timestamp, accuracy	better than 0.5 sec/day
Logging capacity	200.000 measurem. (approx. 1 year)
Management information	
• Battery voltage	yes
• Radio quality (RSSI) in dBm	yes
Environmental conditions	
Operating temperature range	0° to 50°C
Temperature resistant	-40° to 75°C
Housing	UV stabilized ABS-plastic
Mechanism	tipping spoon with magnetic switch on metal shaft
Energy	
Battery (non rechargeable)	Li/SOCI2
Capacity	9 Ah
Replaceable	yes
Voltage	3,6 V
Operating time, depending on the quality of the connection, the selected measurement and reporting interval, approx.	3 years
Communication	
LTE-M and NB-IoT	both integrated
Antenna	integrated
External antenna	no
OTA (Over The Air) updates	yes
Dimensions and weight	
Dimensions without spikes	22 Ø x 28 cm
Opening diameter	16,5 cm
Collection area	214 cm ²
Weight	1,2 kg



TH weather station
transmits all measurement data stand-alone to the INSIGHTNOW™ platform

Recycling e-waste

Of course you can deliver or send us your old Munisense devices. We then ensure that they are included in our recycling process.

About Munisense

Munisense develops, produces, supplies and manages innovative measurement solutions for businesses and governments. Solutions that give stakeholders direct online insight into noise, water quality, water levels and air quality. The information is online available at any time for visualization, analysis or periodic reports. This way managers and policymakers can measure in real time; remotely, reliable and smarter.

Munisense BV
Touwbaan 38 - A0.08
2352 CZ LEIDERDORP
The Netherlands
info@munisense.com
T +31(0)71-711 4623
www.munisense.com

munisense
INSIGHTNOW™