



# **munisense**

## Weather station / Rain meter

**The TH weather station - based on the Pronamic Professional 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 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 precipitation meter, with the self-emptying tipping spoon, is exceptionally accurate. This is calibrated for measurements with an accuracy of 0.1 mm.

The TH weather station can easily be leveled thanks to the optional spirit level that can be 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		TH8
<b>Specifications measurements</b>		
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		0,1 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
<b>Environmental conditions</b>		
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
<b>Energy</b>		
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
<b>Communication</b>		
LTE-M and NB-IoT		both integrated
Antenna		integrated
External antenna		no
OTA (Over The Air) updates		yes
<b>Dimensions and weight</b>		
Dimensions without spikes		22 Ø x 28 cm
Opening diameter		16,5 cm
Collection area		214 cm <sup>2</sup>
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.

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INSIGHTNOW™