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# Wi-SOS 480 Star Weather Station

Wireless solution for a complete weather station  
which can be integrated into an existing  
WI-SOS 480 monitoring system



# Wi-SOS 480 Star Weather Station



## Overview



Compact weather station which is simple to install, use and maintain based around integrating the popular Maximet GMX550 weather station, Kalyx-RG tipping bucket rain gauge and the WI-SOS 480 digital node.



### APPLICATIONS

- Meteorological monitoring
- Hydro-meteorological stations
- Mining/Mineral extraction
- Road Studies
- Harbours & Ports
- Bridge Safety
- Slope Stability

### FEATURES

- Easy to install and long operational life
- High quality measurement data
- Solar Powered
- Supplied with:
  - Weather station 750mm Mounting Post
  - Tipping bucket mounting baseplate
  - Connection cables

### WI-SOS 480 STAR WEATHER STATION SPECS

Maximet GMX550

#### WIND SPEED

Range	0-60 m/s	
Accuracy	0-10 m/s	0.3m/s RMSE
	10-40 m/s:	3% RMSE
	40-60 m/s:	5% RMSE
Resolution	0.01 m/s	
Starting threshold	0.01 m/s	
Unit of measurement	m/s	

# Wi-SOS 480 Star Weather Station

## Specifications

### WI-SOS 480 STAR WEATHER STATION SPECS

#### WIND DIRECTION

Range	0--360°
Accuracy	0.5 m/s -40 m/s $\pm 3^\circ$ 40-60 m/s $\pm 5^\circ$
Resolution	1°
Unit of measurement	degrees

#### AIR TEMPERATURE

Range	-40°C to +70°C
Accuracy	$\pm 0.3^\circ\text{C}$
Resolution	0.1°
Unit of measurement	°C

#### RELATIVE HUMIDITY

Range	-0-100% RH Accuracy
Accuracy	typically: $\pm 2\%$ RH across full range
Resolution	0.1%
Unit of measurement	% RH

#### BAROMETRIC PRESSURE

Range	-300-1250 hPa
Accuracy 900-1100 hPa, 25-40°C	Absolute (typically) $\pm 0.4$ hPa Relative (typically) $\pm 0.08$ hPa
Resolution	0.1 hPa
Unit of measurement	hPa, mbar, mmHg, inHg

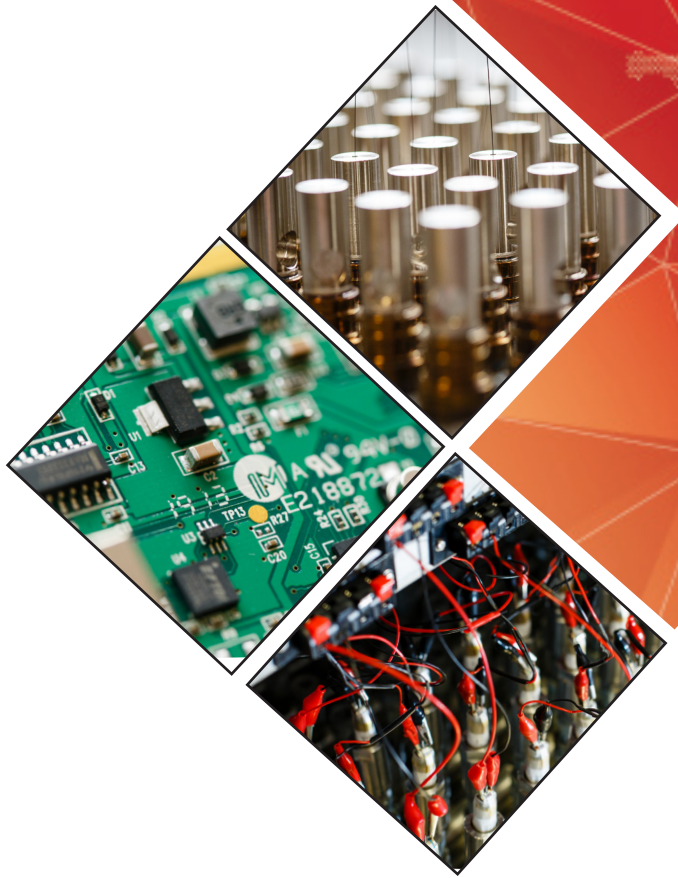
#### PRECIPITATION

Kalyx_RG Tipping Bucket	MET Office standard diameter funnel
Resolution	0.2mm
Typical Accuracy	99% up to 120mm/hr
Operating Temperature	1°C – 70 °C
Funnel Diameter	12.7cm
Funnel Area	127cm <sup>2</sup>

See Maximet GMX550 and Kalyx-RG data sheets for full specifications.

\*Supplied with Solar power supply with backup battery

\*Requires WI-SOS 480 digital node for communicating with a WI-SOS 480 4G Gateway



## HEAD OFFICE

Nova House  
Rougham Industrial Estate  
Rougham, Bury St Edmunds  
Suffolk IP30 9ND  
England

+44 (0)1359 270457  
sales@geosense.com  
support@geosense.com

## NORTH AMERICA OFFICE

15 West 38th Street  
Suite 632  
New York  
NY 10018

+1 518-920-3483  
sales@geosense.com  
support@geosense.com

[www.geosense.com](http://www.geosense.com)

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