

A DIGITAL WEATHER STATION IN THE INFRA-SYSTEM

INFRA X20WXT Weather Station

The INFRA system is used to monitor construction activities, rock blasting, train traffic, road traffic, vibration in buildings etc.

INFRA X20WXT is a complete weather station with an INFRA bus interface. The weather station can be directly connected to the bus cable of the INFRA monitoring system.

Typical applications are sound level monitoring and dust monitoring.

Measurement parameters:

- Wind Speed
- Wind Direction
- Rain intensity
- Air temperature

The Weather station has no moving parts and does not generate any noise, which is important when measuring sound.

It is very easy to use, just connect it to the INFRA bus cable together with other sensors as for example INFRA S50 Sound level meter. All measurements are automatically synchronised and sent to a database for easy handling and reporting. All settings can be handled remotely.



Measurement parameters:

- **Wind Speed**
- **Wind Direction**
- **Rain intensity**
- **Air temperature**

Technical Data

SI Units

WIND SPEED

Averaged wind speed in m/s or mi/h

Range: 0–60 m/s

Resolution: 0.1 m/s

Accuracy: +-3% (10 m/s)

WIND DIRECTION

Averaged wind direction in degrees indicating the direction that the wind comes from. North is represented as 0 degrees East 90 degrees. The wind direction is not calculated when the wind speed drops below 0.05 m/s.

Range: 0 to 360 °

Resolution: 1 °

Accuracy: +- 3 °

RAIN INTENSITY

Averaged rain intensity measured in mm/s or in/h

Range: 0 to 200 mm/h

Resolution: 0.1 mm/hour (0–99.9 mm/h)

1 mm/hour (100–200 mm/h)

AIR TEMPERATURE

Range: -50 to +60 C°

Resolution: 0.1 C°

Accuracy: +- 0.3 C° at +20 °C

+- 0.4 C° at +40 °C

+- 0.7 C° at +60 °C

AVERAGE POWER

160 mW

DIMENSIONS

Diameter: 115 mm

Height: 240 mm

HOUSING PROTECTION

IP66

WEIGHT

650 g

US Units

WIND SPEED

Averaged wind speed in m/s or mi/h

Range: 0–134 mi/h

Resolution: 1 mi/h

Accuracy: +-3% (22.4 mi/h)

WIND DIRECTION

Averaged wind direction in degrees indicating the direction that the wind comes from. North is represented as 0 degrees East 90 degrees. The wind direction is not calculated when the wind speed drops below 0.11 mi/h.

Range: 0 to 360 °

Resolution: 1 °

Accuracy: +- 3 °

RAIN INTENSITY

Averaged rain intensity measured in mm/s or in/h

Range: 0 to 7.87 in/h

Resolution: 0.01 in/h

AIR TEMPERATURE

Range: -60 to +140 °F

Resolution: 0.1 °F (-61.6 to 99.9 °F)

1 °F (100 to 140 °F)

Accuracy: +- 0.54 °F at +68 °F

+- 0.72 °F at +104 °F

+- 1.3 °F at +140 °F

AVERAGE POWER

160 mW

DIMENSIONS

Diameter: 4.6 inch

Height: 9.6 inch

HOUSING PROTECTION

IP66

WEIGHT

1.43 lbs

Product specifications and descriptions in this document are subject to change without notice.

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