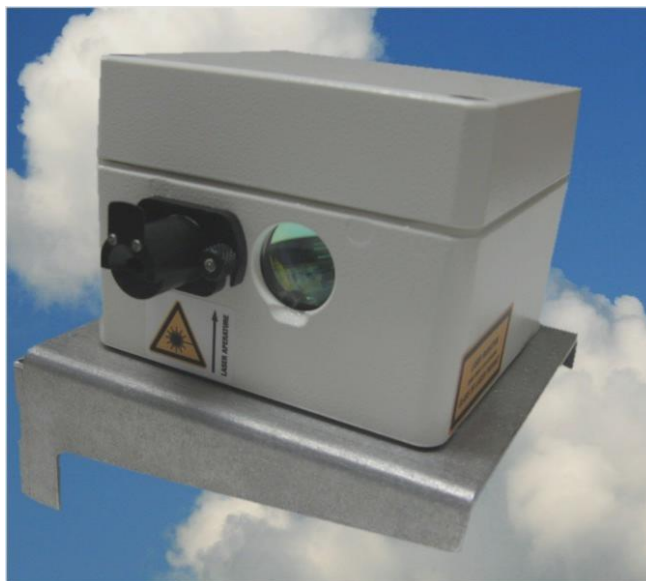


## Present Weather Sensor PWS 09 IR LON Housing



### FEATURES

- OPTICAL MEASURING TECHNOLOGY
- EASY INSTALLATION
- HIGH SENSITIVITY
- DETECTION OF DIFFERENT KINDS OF PRECIPITATION
- LONG – TERM RELIABILITY
- LOW MAINTENANCE
- SENSOR STATUS
- LOW POWER CONSUMPTION

### DESCRIPTION

The **PWS 09 IR** (Present Weather Sensor) is a compact weather sensor, which uses optical backscatter technique for analyzing water particles of different forms in the air like fog, rain or snow.

Due to its compact design the **PWS 09 IR** needs very low power consumption for keeping its optics dry. With the shields protecting the optics from direct sunlight and rain, the lenses can be kept clean and a very low maintenance is needed.

### TRANSPORT SPECIFICATIONS

All the parts of **PWS 09 IR** sensor must be transported in their original packaging and handled with all due care.

## Technical specifications

DV.01518.4-E

**SPECIFICATIONS****Present weather**

Precipitation:

- Id (WMO Code Tab 4680): Rain, snow, mixed rain/snow, fog, mist, drizzle, clarity
- Measurement: Intensity: 0 - 200mm/h (default 60mm/h,  $\pm 20\%$ ); accumulation [mm]
- Resolution: 0,1 mm/h; Particle size from 0.16mm

Visibility:

- Precision: From 10 to 2000 m MOR (meteorological optical range)
- Resolution: <100m  $\pm 10\text{m}$ ; beyond  $\pm 10\%$

Measurement interval:

60 sec.

**Electrical characteristics**

Power supply:

11 V<sub>DC</sub> – 15 V<sub>DC</sub>, about 60 mA, +200 mA for lens heating

Communication protocol:

LonWorks

**Laser data**

Laser type:

Diode

Laser output power:

Less than 1 mW

Laser wavelength:

980 $\pm$ 10 nm

Laser category:

1

**International standards**

Laser safety:

EN 60825-1

EMC Conformity:

EN 61000-6-2:1999, EN 61000-4-2:1995, EN 61000-4-3:1996,  
EN 61000-4-4:1995, EN 61000-4-6:1996**Environmental characteristics**

Temperature:

-40 to +60 °C (-40 to 140 °F)

Humidity:

0 to 100%

Enclosure rate:

IP 65

**Mechanical characteristics**

Size:

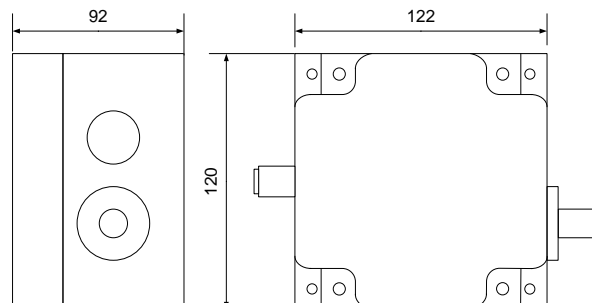
120 x 122 x 92 mm (4.72 x 4.80 x 3.62 in)

Weight:

About 1 kg (2.2 lb)

Housing:

Aluminum

**FURTHER INFORMATION**

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