

6000-PWS

PRESENT WEATHER SENSOR



Advantages

- Advanced Optical Technology
- Rugged Design
- Easy Installation
- Long-term Reliability
- Reports WMO formats
- Low Maintenance
- Self Diagnostics & Testing
- Enhanced EMI Protection

Features

The PWS™ offers the user a present weather sensor based on the leading design concepts of the field proven LEDWI® and WIVIS® technologies. Whilst this device is most suited to use in tropical and sub tropical environments this device is suitable for deployment in all climates.

Many of the PWS features make the instrument excellent for efficient, real-time, remote weather sensing. The PWS™ provides present weather information such as precipitation rate and type in a digital RS-232 output format. Flexible communications options allow linking this device to most data logging devices or it can be linked directly to your PC. The output comes in both NWS and WMO code formats. The PWS's small weight and size make it easy to handle. While the PWS's U-bolts configuration gives the user an easy and flexible method of installation. The PWS is relied on heavily in critical road weather and aviation applications.

Performance Specification	
Present Weather Codes	More than 50 WMO codes
Rain Dynamic Range	0.1 to 3000 mm/hr
Snow Dynamic Range	0.01 to 50 mm/hr (Water equivalent)
Electronic Specification	
Power Requirements	100/115/220/230 VAC, 50/60 Hz @ 80 VA-12 VDC optional, 20 VA nominal
Signal Output	RS-232 ASCII
Environmental	
Temperature	-40 to 50 C
Humidity	0-100%
Precipitation Dust	NEMA-4 type protection
Physical	
Head Size	737 x 102 x 254 mm
Head Weight	4.5 kg
Enclosure Size	457 x 305 x 230 mm
Enclosure Weight	11 kg

The PWS outputs the following WMO Present Weather Codes. Reference : WMO 306 Code form 4680

00 No Significant Weather	61 Rain, not freezing, slight
04 Haze	62 Rain, not freezing, moderate
10 Mist	63 Rain, not freezing, heavy
20 Fog detected in last hour	64 Rain, freezing, slight
21 Precipitation detected in last hour	65 Rain, freezing, moderate
22 Drizzle detected in last hour	66 Rain, freezing, heavy
23 Rain detected in last hour	67 Rain/snow, slight
24 Snow detected in last hour	68 Rain/snow, moderate or heavy
30 Fog	71 Snow, slight
41 Precipitation, slight or moderate	72 Snow, moderate
47 Freezing precipitation, slight or moderate	73 Snow, heavy
51 Drizzle, not freezing, slight	74 Ice Pellet, slight*
52 Drizzle, not freezing, moderate	75 Ice Pellet, moderate*
53 Drizzle, not freezing, heavy	76 Ice Pellet, heavy*
54 Drizzle, freezing, slight	93 Hail, Light*
55 Drizzle, freezing, moderate	93 Hail, Moderate *
56 Drizzle, freezing, heavy	96 Hail, Heavy*
57 Drizzle and rain, slight	-- Start-up cod
58 Drizzle & rain, moderate or heavy	

Options:

P/N TST-120 Field Test Kit for PWS-120

The TST-120 is designed to field calibrate the PWS Sensor. The calibration card is used to easily calibrate the present weather measurement. The card is enclosed in a handy foamed line carrying case

P/N HIP-100 Hail & Ice Pellet Sensor for PWS-120

The HIP Sensor enhances the present weather capabilities of the PWS, WIVIS, or LEDWI by detecting the occurrence and intensity of hail and ice pellets. The acoustic arm is easy to install on top of the instrument enclosure.

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