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PW-400 & PW-405 WEATHER STATION DATA SHEET

The PW-400 Complete Weather Station is designed as a high quality measurement and low profile weather station for the collection of wind speed, wind direction, relative humidity, air temperature, rainfall, and barometric pressure data where 120 VAC is available as the primary power source. With this station, a data logger with a non-volatile memory card is installed in a NEMA 4 classified enclosure along with a regulated 12 VDC power supply and 24 hour system battery back-up. A complete power and signal distribution buss along with a barometric pressure sensor is located within this same enclosure. The enclosure is mounted on a fully guy wired and lightning protected tripod.

At the top of this tripod will be a combination wind speed and direction propeller anemometer as well as a lightning rod assembly. A radiation shield is located below the wind sensor with a combination relative humidity and temperature probe. Finally, a rain gauge is supplied for location close to the weather station. The entire system is fully assembled prior to dispatch and burned-in for 48 hours to guarantee the absolute ease of assembly and installation at the customer's work site. The user needs only to erect the system using simple hand tools, supply the primary power and load a program. This usually only takes a few hours.

The PW-400 Weather Station is a full turn-key station in that all of the components have been tested individually and as a system prior to shipment. The data logger will come with a program written for it in which all of the sensors' outputs have been corrected from their analog values to the correct engineering units such as wind speed in miles per hour and rainfall in inches. The information retained in the data logger's non-volatile memory card can be locally downloaded using a lap top computer or remotely via optional equipment such as a modem, cellular phone with modem, RF transceiver or even satellite. This data can be formatted for use in most spreadsheet programs or as single line items. Additionally, alarm conditions can be defined and monitored for generated call outs to a host computer by use of additional instrumentation. Rainfall is logged as both interval and accumulated values while barometric pressure can be corrected for elevation if so requested at time of order. Multiple data collection rates can be chosen to maximize the memory capacity and data can even be logged, if chosen, on conditional statements being met. If the user wants a different unit of measure from the following, then please request the preference at time of order.

(continued)

PW-400 COMPONENTS:

| Model | Unit of Measure |
|---|-----------------|
| DT50 Datataker | N/A |
| MC-512P Memory Card | N/A |
| MC-ADP Adapter | N/A |
| JS-501 Enclosure | N/A |
| WS-110 Wind Speed & Direction Sensor | MPH Degrees |
| WS-220 Wind Sensor Mounting Adapter | N/A |
| AS-130 Relative Humidity w/ Pt1000 Probe | % °F |
| AS-175 Radiation Shield | N/A |
| AS-155 Barometric Pressure Sensor | mBar |
| RG-400 Tipping Bucket Rain Gauge | inch |
| JS-600 Tripod Assembly w/ Guy Wires | N/A |
| JS-605 Tripod Lightning Rod Assembly | N/A |
| PS-12 Power Supply | N/A |
| GC-7-CA Gel Cell Battery w/ Cable Assembly | N/A |

The PW-405 Weather Station is identical to the PW-400 with the exception that it is designed with a solar power package for use where 120 VAC is not available. The PS-12 Power Supply and the GC-7-CA Gel Cell Battery w/ Cable Assembly are replaced by the SPP-30 Solar Power Package which mounts to the tripod assembly and supplies the needed power for all of the station's requirements.

The PW-400 and PW-405 Weather Stations come complete with a full one year warranty against defects in materials or workmanship.

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