

Weather Station

PRMET-500

PREDE



[General]

PRMET-500 is compatible with a variety of sensors and can make highly accurate measurements.

It can be used for a wide range of applications, from cost-sensitive observations to multi-channel observations. The use of a memory card makes it easy to retrieve data.

- 4 to 8ch. Pulse type are selectable
- 2GB memory
- Low power consumption
- Pre-heating, Averaging, and scaling function
- LCD Display
- Various sensor inputs possible

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[Data Logger Specification]

Supported Ranges	Voltage ($\pm 10\text{V}/\pm 5\text{V}/\pm 1\text{V}/\pm 500\text{mV}/\pm 250\text{mV}/\pm 100\text{mV}/\pm 50\text{mV}/\pm 25\text{mV}/\pm 20\text{mV}/\pm 10\text{mV}$) Current ($\pm 20\text{mA}$), Resistance ($\pm 100\Omega/\pm 10\text{k}\Omega$), Strain ($120\Omega/350\Omega$), Potentiometer ($1\text{k}\Omega$ to $10\text{k}\Omega$), Temperature (Pt100, T-type thermocouple, thermistor specified by us), Pulse (1kHz or less)				
Number of channels	Type	Analogue Ch	Pulse Ch	Total	
	PFAST-M4	4	-	4	
	PFAST-M4P	4	2	6	
	PFAST-M8	8	-	8	
	PFAST-M8P	8	2	10	
Number of records (Logical channels)	Max. 20ch (*Number of data that can be recorded after performing various calculations on sensor output by physical channels)				
Calculation function	Between intervals: total, maximum, minimum, average, time of occurrence For wind direction and speed: 10-minute average wind speed before measurement, vector average wind direction, wind speed standard deviation Most frequent wind directions during interval (16 directions)				
Other functions	Pre-heat timer function: Turns on power to sensors that require power supply before the measurement time. Can be set for each physical channel (settable range: 1 to 1800 seconds) Smoothing function: Samples every second for a set period of time before the measurement time, and averages the sampled value as the measurement value. *Can be set for each logical channel (settable range: 1 to 60 seconds) Scaling function: Set primary conversion formulas for each physical and logical channel, and convert to physical units, etc. Battery level monitor function: Simple display of remaining battery level by battery voltage				
Number of recorded data	123,000 times No variation by number of channels				
Measurement Interval	1 to 6,10,12,15,20,30 seconds, 1 to 6,10,12,15,20,30 minutes, 1 to 4,6,8,12,24 hours				
Display function	Character LCD 16-digit x 2-line (with backlight)				
Memory	64MB (flash memory)				
CF card function	CompactFlash card slot (for data recovery) Maximum supported size 2GB *Card not included.				
Interface	RS-232C serial interface (38400 bps)				
Terminal block	Screwless (no screw fastening required)				
Operating Power Supply	1 pack of lithium battery (2CR5) for camera included as standard AC adapter (optional) External power supply (8 to 18 VDC, optional)				
Sensor power supply	5VDC or 12VDC, 60mA max. (12VCC only for external power supply operation)				
Operating Temperature	-25 to +60°C				
Dimensions	175 (W) x 250 (D) x 75 (H) mm (Excluding protruding parts)				

Although the product is housed in an IP65 waterproof and dustproof case, do not use the product in submerged conditions or underwater as it would cause damages by water ingress.

Specifications are subject to change without notice for product improvement.

Applicable sensors

Ultrasonic anemometer, Temperature & Humidity probe, Pyranometer, UV radiometer, Lux sensor, Rain gauge, Rain sensor, Net radiometers, Albedometer, etc.

Solar panel could be supplied as an option.