Met-Set

5 Meteorological Measurements (wind direction, wind speed, air temperature, relative humidity & barometric pressure) taken by 1 instrument. Integrate MET-SET with any data collection platform (dcp) & use for a variety of applications.

- Accurate, Highly Sensitive, Durable & Quickly Deployable
- Uses a three-cup anemometer connected to a shaft, which turns a sensing element that converts the rotation into a series of electronic pulses. The basic operation is based on the proven 014 Wind Speed Sensor.
- Temperature & Humidity are built into the temperature shield, which limits errors due to solar radiation.
- The RH sensor is a capacitive element enclosed in a protective membrane.
- A solid state pressure sensor built into the instrument electronics provides accurate measurement of barometric pressure changes over a wide range.
- Electronic temperature compensation is included for highest accuracy.
- Easy Installation
- Simple Serial Connections
- Platform comes standard with serial RS-232 & SDI-12 outputs. RS-485 & RS-422 are available upon request

SPECIFICATIONS	
Specifications subject to change without notice	
Parameters	**Specifications**
WIND SPEED	
Range	0 – 50 m/sec
Resolution	0.1 m/sec
Accuracy	± 2%
WIND DIRECTION	
Range	0 – 360° 1°
Resolution	1°
Accuracy	± 5° Threshold, both Speed & Direction 1 m/sec
TEMPERATURE & HUMIDITY	
Temperature Range	-40°C to +60°C
Temperature Resolution	0.1°C
Temperature Accuracy	± 0.5°C
Relative Humidity Range	0-100%
Relative Humidity Resolution	1%
Relative Humidity Accuracy	± 4%
BAROMETRIC PRESSURE	
Measurement Range	500 – 1100 mbars
Measurement Resolution	0.1 mbar
Measurement Accuracy	± 2 mbars

ORDERING	
5600-MOMP-1	MET-SET
	5 meteorological sensors (wind direction, wind speed, air temperature, relative humidity & barometric pressure) integrated into 1 instrument for use in a variety of met applications when connected to data collection platforms(dcp).
	Includes mounting plate, u-bolts, 50 foot cable
	The MetSet platform comes standard with serial RS-232 & SDI-12 outputs. RS-485 & RS-422 are available upon request.

INSTALLATION	
SITING	Find suitable location within cable length of recording electronics / display.
	Locate true north
MOUNTING	Use quick mount u-bolts to install on vertical or horizontal mast, pole or pipe.
	Tighten nuts, keeping sensor level.
DIRECTION ALIGNMENT	Install alignment shoulder screw into wind direction vane hub.
	Align sensor so wind direction counterweight is to the South, vane tail is to true North
CHECK OPERATION	Check that the vane and cups rotate freely.
RS-232 CONFIGURATION	9600 baud, 8 data bits, no parity, 1 stop bit, and no flow control
SDI-12 CONFIGURATION	Default address 0
	Conforms to SDI-12 V1.3
OUTPUT STRING FORMAT	SSS.S, DDD, +TTT.T, HHH, PPP.P, RRR.RR, XXXX, VV.VV, *CCCC<CR><LF> SSS.S = Wind Speed DDD = Wind Direction +TTT.T = Temperature HHH = Relative Humidity PPP.P = Barometric Pressure RRR.RR = Rain (Optional) XXXX = Solar (Future Option) VV.VV = Battery Voltage *CCCC = Message Checksum
CONNECTIONS	Run cable to recorder or computer Connect using included screw-terminal DB-9 adaptor or solder DB-9 or DB-25.
WIRING	RED +9 TO +17 VOLTS DC @ 4mA BLK POWER COMMON WHT RS-232 TX BRN RS-232 RX GRN RS-232 / SDI-12 COMMON BLU SDI-12 WHT/BRN SHIELD (must be grounded for transient protection to function)