All Sensors

SENSOR SPECIFICATIONS

RELATIVE HUMIDITY(EE)

- Measurement Range0 to 100%RH
- Accuracy ±2 % RH (0...90 % RH) ±3 % RH (90...100 % RH)
- Output 0.00...100.00 % RH
- Response <15 sec without filter

TEMPERATURE SENSOR

- SensorPt1000
- Modbus output range -40.00...+80.00 °C (-40... 176 °F)
- Supply voltage4 28 V DC
- Interface / BusRS485 / Modbus in slave mode

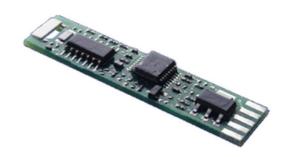
TEMPERATURE& HUMIDITY (INSTRONICS)

- Measurement Range -25 to +85 deg C, RH 0 to 100%
- Accuracy: <3% RH (15 to 85% RH @23 deg C)
- Output 4 to 20 mA (0 to 100% RH)
- Response <15 sec without filter

WIND DIRECTION(ULTRASONIC)

- Range: 0 359° (No dead band)
- Display Resolution 16 points(22.5°) on compass rose,1°in numeric display
- Accuracy: ±2° @12 m/s °









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All Sensors

SENSOR SPECIFICATIONS

WIND SPEED (ULTRASONIC)

- Resolution and Units Measured: 0.01 m/s (0.02 knots)
- Range: : 0 60 m/s (116 knots)
- Accuracy: : ±2% @12 m/s
- Maximum Cable Length 240'(73m). Maximum windspeed
- Reading decreases as the length of the cable from the Anemometer to the ISS increases.
 At140'
- (42m), maximum speed is 135 mph (60m/s).
 At 240', the maximum is 100 mph



WIND DIRECTION (GILL ONLY)

- Range0 359° (No dead band)
- Accuracy±2° @12 m/s
- Resolution1°
- Response Time0.25 second

WIND SPEED (GILL ONLY)

- Range0 60 m/s (116 knots)
- Accuracy±2% @12 m/s
- Resolution 0.01 m/s (0.02 knots)
- Response Time0.25 seconds

WIND SPEED (SIVARA)

- Power supply: 24 Vdc
- Output: 4- 20 mA
- Range: 0-250 Km/hr
- Termination: Screw Terminals Housing: IP65







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All Sensors

SENSOR SPECIFICATIONS

WIND DIRECTION (SIVARA)

Wind Speed Range: 0.5 to 50 m/s

Wind Speed Accuracy: +/- 3% FS

Startup wind speed: 0.5m / s

Output: Pulse, 62 Hz = 250 km/hr

• Dimensions: 3 cup Dia 15 cms

Cable length: 2 mts

Temperature: - 40 ~ 75 ° C



WIND DIRECTION& WIND DIRECTION SENSOR (DAVIS)

- Operating Temperature -40° to +149°F (-40° to +65°C)
- Wind Speed: Solid-state magnetic sensor
- Wind Direction: Wind vane and potentiometer
- Wind Direction
- Display Resolution 16 points (22.5°) on compass rose,
- Range: 0-360°C
- Accuracy: ±3°

Wind Speed

- Range: 1 to 200 mph, 1 to 173 knots, 0.5 to 89 m/s, 1 to 322 km/h.
- Accuracy: ±2 mph (2 kts, 3 km/h, 1 m/s)



RAINFALL SENSOR (RAIN WISE)

- Output: Less than 0.1 sec. switch closure
- Capacity: 6 to 24 VDC @ 500ma
- Resolutions Available: 0.01 inches
- Accuracy: 2% at 1.5" per hour











All Sensors

SENSOR SPECIFICATIONS

RAINFALL SENSOR (0.2MM)

- · High accuracy, good stability
- Mesh in the funnel preventing debris such as leaves and insects from entering the working of rain
- sensor (mesh is optional).
- Highly polished stainless steel construction.
- Rain collector with filter, to prevent the leaves, such as debris jam over the hole.
- Optional heating function in cold region.



- Diameter: φ200 mm
- Collector Area: 314 cm2
- Resolution: 0.5 mm and 1 mm
- Accuracy: a) ±2% for rain rate up to 25mm/hr)
- ±3% or better, for rain rate between 25mm/hr to 150mm/hr
- Output Dry reed switch contact pulses, RS485 (optional)
- Operating temperature: -20 to +80°C (no freeze)
- Material Collector: 304SS, tipping bucket: ABS
- Weight: 3 Kg

SOLAR RADIATION SENSOR (MS 40)

- Operating Temperature Range: -40 80 °C
- Irradiance range: 0 2000 W/m²
- Wavelength range 285 3000 nm
- Output Analog (mV)
- Response time 95% < 18 Sec.
- Directional response at 1000W/m² +/- 20 W/m²
- Temperature response -10°C to 40°C +/- 3 %
- Temperature response -20°C to 50°C +/- 3 %







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All Sensors

SENSOR SPECIFICATIONS

SOLAR RADIATION (MS 01)

- Output Analog (mV)
- Response time 95% < 1 ms
- Directional response at 1000W/m² < 10 W/m²
- Temperature response -10°C + 40°C < 0.15 %/°C
- Wavelength range 400 1100 nm
- Operating temperature range -30 70 °C
- Irradiance range 0 2000 W/m²

SOLAR RADIATION (ML 02)

- Response time 95% < 1 ms
- Directional response at 1000W/m² < 10 W/m²
- Operating temperature range -30 70 °C
- Irradiance range 0 2000 W/m²
- Wavelength range400 1100 nm (50%points)

SOLAR RADIATION SENSOR (ML 01)

- Response time 95% < 1 ms
- Directional response at 1000W/m² < 10 W/m²
- Temperature response -10°C + 40°C < 0.15 %/°C
- Sensitivity Approx. 50 μV/W/m²
- Wavelength range 400 1100 nm
- Operating temperature range -30 70 °C
- Irradiance range 0 2000 W/m²

SOLAR RADIATION SENSOR (DAVIS)

- Operating Temperature -40° to +150° F (-40° to +65° C)
- Storage Temperature -50° to +158°F (-45° to +70°C)
- Resolution and Units 1 W/m2
- Range 0 to 1800 W/m2
- Accuracy ±5% of full scale (Reference: Eppley PSP at









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All Sensors

SENSOR SPECIFICATIONS

BAROMETRIC PRESSURE SENSOR (SGS)

- Range600 to 1100 hPaUser programmable to optimize the range of application
- Digital Accuracy±0.15 hPa at 25 C
- Analog Accuracy±0.2 hPa at 25 C
- ResolutionDigital: 0.01 hPa Analog: 0.025% of analog scale
- Long Term Stability<±0.1 hPa /year
- Input Voltage7 to 30 V DC
- Response Time<0.5 second

BAROMETRIC PRESSURE SENSOR (MS)

- Pressure range 500 to 1100 hPa (or custom)
- Temperature range -40 °C to +60 °C
- Storage temperature -40 °C to +60 °C
- Accuracy ±0.3* hPa (-40 °C to +60°C)
- Long-term stability ±0.2 hPa / year

BAROMETRIC PRESSURE SENSOR (APOGEE)

- Measuring Range: 15 to 115 kPa (approximate)
- Output Voltage Range 0 to 5 V DC
- Sensitivity: 45.9 mV per kPa; 0.459 mV per 0.01 kPa (approximate)
- Response Time: 1 ms

LEAF WETNESS

- Dry output 0.25 V approx.
- Fully wet output 0.4 V approx.
- Probe dimensions, cm 11.2 \times 5.8 \times 0.75
- Operating temperature 0 to 50 °C
- Protection index IP 67











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All Sensors

SENSOR SPECIFICATIONS

UV SENSOR (DAVIS)

- Operating Temperature-40° to +150° F (-40° to +65° C)
- Storage Temperature -50° to +158°F (-45° to +70°C)
- Sensor Output
- Resolution and Units 0.1 MEDs to 19.9 MEDs;
- 1 MED above 19.9 MEDS
- Range 0 to 199 MEDs
- Accuracy ±5% of daily total
- Resolution and Units 0.1 Index
- Range0 to 16 Index
- Accuracy ±5% of full scale (Reference: Yankee UVB-1
- at UV Index of 10





