



**AETHER**

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**AETHER TECHNO SOLUTIONS PVT. LTD.**

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## Our Story

Founded in Year 2019, Aether Techno Solutions is an ISO 9001:2015 certified organization offering tailored processes and solutions designed for precise applications. Our comprehensive range of solutions encompasses, but is not limited to, the measurement of Environmental Monitoring, Level, Flow, Pressure, Temperature, Conductivity, Light, Wind, Humidity, and Meteorological Measurements. Our specialized equipment delivers precise, dependable, and accurate measurements for any application. With our extensive expertise and years of experience, we are dedicated to delivering premium products and services, meticulously customized to meet the unique needs of each customer. Our solutions are designed to enhance operational efficiency, reduce costs, and support businesses in achieving their objectives, all while ensuring a strong focus on customer satisfaction. We are dedicated to assisting industries from the initial stages of idea conception all the way to the final implementation of technologies. Our approach incorporates innovative ideas, advanced tools, and cutting-edge technologies to provide the most effective solutions for our clients. This not only enhances operational efficiency and performance but also ensures the attainment of safety and compliance objectives.

Our top priority at Aether Techno is the customer, and we place them at the heart of everything we do. By fostering a culture of inclusivity and collaboration in our development process, we consistently deliver high-quality solutions to our customers. Our open communication and outreach approach allows us to build lasting relationships with our clients and continuously add value.

We pay great attention to detail, ensuring that every process, strategy, and decision is aligned with the best interests of our customers. Our customer-centric culture drives us to turn their expectations into a reality.

## Company Culture

A culture that promotes progressiveness is essential to building a thriving workforce and establishing an environment of trust and loyalty. Our organization prioritizes several key elements that contribute to creating a nurturing, collaborative, and positive corporate culture. These include :

- Transparent and two-way communication
- Teamwork, respect, and fairness
- Timely recognition and appreciation of employees
- Empowerment and involvement of employees
- A focus on innovation, inspiration, and excellence



# Suit of Services & Products

Aether Techno Solutions comprises a group of knowledgeable and zealous experts who are dedicated to advancing sustainable next-gen technologies through innovation. Our team consists of over 50+ individuals with extensive expertise and diverse experiences across various niches and domains.



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Environment  
Monitoring



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Water & Waste Water  
Management



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Waste Management



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Hydrology,  
Metrology, Geology



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Process Automation  
& Control



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Instrumentation  
Laboratory

# Our Customers



# Our Partners



# Weather Monitoring Station



## Automatic Weather Station

Weather station IWS-M comes with integrated sensor suit. The sensor suite includes temperature and humidity sensors, a rain collector and an anemometer for making setup easier than ever and improving performance and reliability. You'll get highs and lows (and/or totals or averages) for virtually all weather variables for the past 24 days, months, or years, and your own local forecast.

IWS-M include solution to the problem of monitoring weather at a remote location with our Cellular Weather Station system. Using a specialized adaptor that supports almost any cellular data provider with GPRS coverage.

Wind speed   Wind direction   Temperature   Relative Humidity   Barometric Pressure   Rainfall



## All-in-One MeteoCompact Station

HDMCS-100 is a quick to install and easy to use Meteo Compact Station, an All-in-One AWS solution, capable of measuring at the same time:

- Wind speed
- Wind direction
- Temperature
- Relative Humidity
- Barometric Pressure
- Rainfall
- Solar Radiation
- Datalogger
- Software



# Weather Monitoring Station



## Airport Weather Observation System

The Automated weather Observing System (AWOS) measures all of the weather parameters at airport facilities, airfields, heliports, etc., providing the processed data to the ATC and Meteorological Office, which distributes it in different ways to the aircraft pilots and the air traffic safety authorities.

- Wind Speed and Direction
- Air Temperature
- Relative Humidity of the Air
- Dew Point
- Precipitation
- Atmospheric Pressure (QFE-QNH)
- Solar Radiation
- Visibility (MOR- Meteorological Optical Range)
- Present Weather (intensity and type of precipitation: rain, snow, hail, etc.)
- Cloud Ceiling
- Vertical visibility
- Turbulence at Altitude

## Kestrel 3500 Weather Meter

The Kestrel 3500 Weather Meter is designed as a full weather meter that has the ability to measure environmental variables such as temperature, wind speeds, barometric phenomena, pressure trends of up to 3 hours, and more. This rugged and affordable meter provides a complete range of reliable weather measurements. For those in need of a full reading of the latest weather information, the 3500 is the ideal Kestrel Meter.



## Davis Wireless Vantage Pro2 Weather Station



The Davis Vantage Pro2 weather station is a research-grade weather station that provides professional-grade data for weather enthusiasts, researchers, growers, and weather professionals. It reports real-time wind speeds up to 200 mph, temperature and humidity, barometric pressure, rainfall and other information such as heat index, dew point, highs and lows, and much more. Users have the option to include solar and UV radiation sensors, as well as a fan-aspirated radiation shield. Vantage Pro2 sensors are NIST-traceable and are suitable for professional weather data reporting.

# Weather Monitoring Station



## PVMet™ 330 Solar Monitoring Station

The PVMet™ 330 is a complete monitoring experience with our full range of sensors to optimize PV power generation. The PVMet 330 includes an option for both a Global and Plane-of-Array Irradiance Sensor, one or two Back-of-Panel Temperature Sensor(s), an Ambient Air Temperature Sensor, a Wind Speed and Direction Sensor, a Relative Humidity Sensor, a Barometric Pressure Sensor, and a Rain Gauge Sensor. Simple to install on any solar project, the PVMet 330 connects to Modbus RTU Communication with an ethernet TCP option available. Ships fully assembled and factory calibrated.



## Fyllo lot Weather Station

### Weather Station

- 2 level soil moisture
- Air temperature
- Air pressure
- Sunlight Intensity
- Wind speed
- Soil temperature
- Air humidity
- Leaf Wetness
- Rainfall
- Wind direction



## Kestrel 5400 WBGT Heat Stress Tracker (HST) & Weather Meter

- Measures Wet Bulb Globe Temperature (WBGT), Thermal Work Limit (TWL), heat index, temperature, humidity and much more. 15 measurements in all!
- Waterless! Natural Wet Bulb Temperature accurately calculated from on-board digital sensors with no tedious setup or maintenance.
- Large, hi-res, hi-contrast, graphic display is perfectly readable in the brightest sunlight and is backlit for use in low-light conditions.
- Handheld, portable, data logger with customizable warning flag settings, graphing and measurement statistics.



## Wind Sensor (Modbus)

- Wind speed (3 s, 2 min avg, and 10 min avg)
- Anodized aluminum
- Stainless steel bearings
- No-contact wind vane direction sensor
- Modbus RTU





## Wind Speed And Wind Direction Sensor (aam-01)

### Wind Direction

- Range • 0-360 degree
- Resolution • 1 degree
- Accuracy •  $\pm 7$  Degree
- Output • Analog/Modbus

### Wind Speed

- Range • 3 -250 km/h
- Resolution • 1 Km/h
- Accuracy •  $\pm 5\%$
- Output • Pulse/Modbus



## 3-Axial Ultrasonic Anemometer

### Wind Direction

- Sensor • Ultrasounds
- Measuring • 0...360°
- Range • 0.1°
- Resolution •  $\pm 2^\circ$
- Accuracy

### Wind Speed

- Sensor • Ultrasounds
- Measuring • 0...85 m/s
- Range • 0.01 m/s
- Resolution •  $\pm 2^\circ$
- Accuracy



## 2-Axis Ultrasonic Anemometer

### Wind Direction

- Sensor • Ultrasounds
- Measuring • 0...359.9°
- Range • 0.1°
- Resolution •  $\pm 2^\circ$
- Accuracy

### Wind Speed

- Sensor • Ultrasounds
- Measuring • 0...60 m/s
- Range • 0.01 m/s
- Resolution •  $\pm 2^\circ$
- Accuracy

# Weather Monitoring Station



## ATRH (atmospheric pressure & relative humidity)

ENVIROsense is our new environmental temperature, relative humidity and, optionally, barometric pressure transmitter series with standard RS485 Modbus-RTU output.

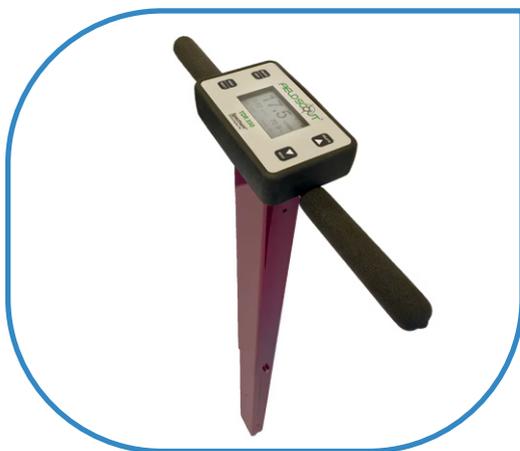
### DIFFERENT VERSION

- Meteorology/Renewable energies
- HVAC / Indoor
- Clean Rooms/High performance
- Particularly suitable for OEM applications.

## Tipping Bucket Rain Gauge

Rain gauge with tipping bucket, area 200 cm<sup>2</sup>, temperature range - 20 °C (heated version) +70 °C

The HD2015 is a reliable and sturdy bucket rain gauge, entirely constructed of corrosion resistant materials in order to guarantee its durability.



## FieldScout TDR 350 Soil Moisture Meter

The FieldScout TDR350 Soil Moisture Meter measures Soil Moisture (VWC - Volumetric Water Content), Salts (EC - Electrical Conductivity) and Surface Temperature. The improved ergonomic design allows for quick adjustment of the meter height to fit your needs and avoid unnecessary bending. The backlit display allows for easy reading even in the early morning hours. Data logger records approximately 50,000 measurements. TDR rods are sold separately and are REQUIRED. Choose from 1.5" (3.8cm), 3" (7/6cm), 4.8" (12.2cm) and 8" (20cm) rods to match your needs. With integrated Bluetooth and GPS, use the FieldScout App and view readings not only on the meter but real time in the app. For instantaneous data upload and more detailed reporting and mapping abilities, add a FieldScout SpecConnect Cloud Solution Subscription. Data can also be collected with a USB flash drive. (Case is included)

# Soil Monitoring Solution



## Hydra Probe Soil Sensor

- VWC (% Moisture)
- Temperature (°C / °F)
- Electrical Conductivity (EC)
- Pore Water EC
- Thermal compensation
- 5 standard soil calibrations
- 5 year warranty
- Operating temperature: 40°C to 75°C

## HydraGO Soil Sensor



HydraGO Models	HydraGO	HydrdaGO Flex
Configuration	Sensor on a Shaft	Sensor on a detachable Cable
GPS	Phone GPS	Internal GPS, +/- 2 meters
Wireless Protocol	Bluetooth	Bluetooth
App (Android or iOS)	HydraGO	HydraGO
Battery Type	Rechargeable Lithium Ion battery, 3.7 V / 10500 mAh	Rechargeable Lithium Ion battery, 3.7 V / 10500 mAh
Housing	Delrin	Delrin
Weight	3.28lbs (1.49kg) with 4 segments	1.88lbs ( 0.85 kg )
Dimensions	Body: 9.75" L x 3.5" W x 2.5" D (24.8cm L x 8.9cm W x 6.4cm D) Segment: 5.5" long (14cm) 93633-007: Complete unit with 4 segments and 1 knob.	Body: 4.5" L x 2.75" W x 2.25" D (11.4cm L x 7.0 cm W x 5.7 cm D)

# Soil Monitoring Solution

## Nero Infinity Soil Sensor



- Real Time Irrigation Alerts
- Precise Fertilizer Schedule
- Touchless Sensor(long Life)
- High Frequency Em Waves
- Ev Grade Batteries With Solar Support
- E-sim Technology

## Soil Volumetric Water Content



### Volumetric water content

- Measuring principle      Capacitive
- Measuring range          0..60% VWC
- Resolution                 0.1%
- Accuracy (@ 23 °C)      ± 3 %
- Measuring volume        Ø = 100 mm x H=150 mm
- 2-electrode                Ø = 80 mm x H=110 mm
- 3-electrode                -40...+60°C
- Sensor operating
- temperature

### Temperature

- Sensor                      NTC 10 kΩ @ 25°C
- Measuring range         -40...+60°C
- Resolution                 0.1°C
- Accuracy                   ± 0.5°C
- Long-term stability       0.1°C / year

# Pressure Sensors

## Leaf Wetness



### Leaf wetness sensors

The sensor imitates the status of the leaves in the canopy, detecting the presence of water or ice anywhere in the sensor surface by the measurement of the dielectric constant.

- **Operating Range / Technology**

500 to 1100 hPa / MEMS

- **Operating Temperature**

-50 to +60 °C

- **Accuracy (rms values)**

±0.2 hPa at 25°C

- **Serial Output**

- **Analog Outputs**

- **Power**

7 to 30 VDC at 3 mA

## Atmospheric pressure sensors

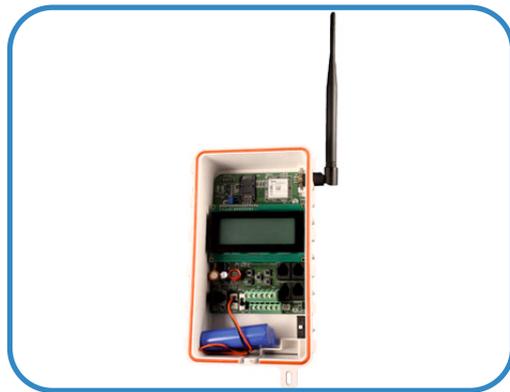


## Barometric Transmitters



- **Sensor** Piezoresistive
- **Measuring** PBS860 600...1100 hPa
- **Range** PBS880 800...1100 hPa
- **Accuracy** ± 0.5 hPa @ 20°C
- **Temperature** <1 % F.S., zero over -20 to +60 °C (-4 to 140 °F)
- **Drift** <1 % F.S., span
- **Long-term** < 0.25 % F.S. over 6 months at 20 °C
- **Stability**





## Aether - Datalogger

Our data logger IDL01 contains an electrical circuit which acts as intermediary between sensor and storage media. Electrical circuit covers component for channel selection, communication and computer interfacing. IDL01 consist of 5 number of input for various sensors such as temperature, humidity, rain gauge, wind speed, wind direction. Series interface for communication IRG01 use GPRS modem. IDL01 use a switch for output. Flash memory is used to store data to transmit over time interval. IDL01 data logger, which includes

- On-board SIM card and GSM module
- Weatherproof of Enclosure
- Easy data backup over bluetooth
- Micro SD card
- Lithium-ion batteries



## Steel Head Datalogger

- Configuration: add/change sensors, reporting/sampling interval, and more!
- Integrated high-efficiency (MPPT) solar regulator
- Built-in GPS, internal barometric, humidity, and temperature sensors
- Includes internal batteries and antennas
- IP-68 (waterproof) enclosure
- SDI-12 Transparent mode: talk directly to the sensor for diagnostics
- Download stored data
- Reporting to Stevens-Connect or a third-party server via HTTP/HTTPS, FTP, or both
- Configuration: add/change sensors, reporting/sampling interval,
- Create interactive dashboards with multiple stations and parameters
- Notifications on measurement thresholds via text and/or email
- Three Power Options, Battery Only , 12 Watt Solar Panel, External Power

## Data Collection & Analysis Applications

- Environmental monitoring
- Water resources
- Soil management
- Open and close channel flow
- Precision agriculture and horticulture

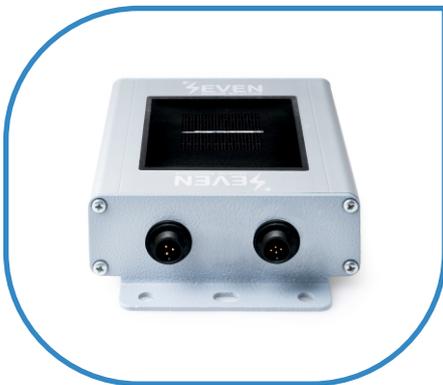
## HD33MT - Data Logger

- 4 analog independently configurable inputs
- 2 voltage-free counting contact inputs
- SDI-12 “Master” port compatible with version 1.3.
- RS485 port Modbus-RTU configurable as “Master” or “Slave”.
- Ethernet MODBUS TCP/IP (optional as HD33MT.4/E or HD33LMT.4/E).
- 2 voltage-free contact alarm outputs.



## Pyranometer

Model	LPR10	LPS10	LPS02	LPS03
Classification according to ISO 9060:2018	Fast Response Class A	Class A	Class B	Class C
				
Sensor	Thermopile	Thermopile		
Measuring range	200...4000 W/m <sup>2</sup>	-200...4000 W/m <sup>2</sup>		
Resolution	0.1 W/m <sup>2</sup>	0.1 W/m		
Viewing angle	285...2850 nm	283...2800 nm	300...2800 nm	
Output	Modbus-RTU	mV, 4...20 mA, RS485 Modbus-RTU + , 0...1 V, 0...5 V or 0...10 V		
MTBF	> 10 years	> 10 years		
Shadow ring	no	Optional		
Heater	Integrated	Optional		
Protection Degree	IP 67	IP 67		



### Irradiance Sensor With Modbus RTU Output

It's a Sensor Box for Solar PV Plants having a Modbus RTU Output.

Besides Irradiance Sensor, it includes also an Internal Cell Temperature Sensor. It is compatible with all Modbus RTU Dataloggers. It is supplied along with Mounting Bracket and Cable.



### Module / Panel Temperature

Contact temperature probe for solar panel. 3-wire class B Pt100 sensor.

Adhesive aluminum plate. Dimensions 10 x 30 x 5 mm.

Measuring range: -40...+150 °C TPE isolated cable.

Cable length 3 m.



## Class A Pyranometer With Shadow Ring

- |                        |  |
|------------------------|--|
| • Sensor               | Thermopile   |
| • Typical              | 6...12 $\mu\text{V}/\text{Wm}^{-2}$  |
| • Sensitivity          | -200...4000 $\text{W}/\text{m}^2$ The irradiance range for the analog output is 0...2000 $\text{W}/\text{m}^2$ by default, and is configurable in LPS13Mxx |
| • Measuring Range      |  |
| • Resolution           | 0.1 $\text{W}/\text{m}^2$  |
| • Viewing Angle        | $2\pi$ sr  |
| • Spectral Range (50%) | 283...2800 nm  |
| • Output               | mRs485, 4...20 mA (default), 0...1 V, 0...5 V or 0...10 V, 2-wire (current loop) 4...20 mA, mV   |



## Sunshine Duration

The LPSD18 performs the measure of radiation with an array of photodiodes arranged in a particular geometry which allows to obtain an accurate measurement in any weather conditions. This solution avoids the use of mechanical moving parts and ensures high reliability in the time.



## Pyranometer Separate Sensor with Handheld Meter

- |   |  |                        |                |
|---|--|------------------------|----------------|
| • <b>Calibration Uncertainty at 1000 <math>\text{W m}^{-2}</math></b> | Less than 3 %  | • <b>Response Time</b> | Less than 1 ms |
| • <b>Measurement Repeatability</b>                                    | Less than 1 %  | • <b>Field of View</b> | 180°           |
| • <b>Non-stability (Long-term Drift)</b>                              | Less than 2 % per year   |                        |                |
| • <b>Spectral Range</b>   | 360 to 1120 nm (wavelengths where response is 10 % of maximum) |                        |                |



## Spectrally Flat Albedometer

- |                        |                                     |
|------------------------|-------------------------------------|
| • Sensor               | Thermopile                          |
| • Typical sensitivity  | 6...12 $\mu\text{V}/\text{Wm}^{-2}$ |
| • Measuring range      | -200...4000 $\text{W}/\text{m}^2$   |
| • Viewing angle        | $2\pi$ sr                           |
| • Spectral range (50%) | 283...2800 nm                       |
| • Output               | Passive in mV                       |



## Pyrgeometer

**Sensitivity**

0.12 mV per  $W\ m^{-2}$

**Calibration Uncertainty**

$\pm 5\%$

**Non-linearity**

Less than 1 %

**Field of View**

180°

**Calibration Factor**

8.5  $W\ m^{-2}$  per mV

**Measurement Range**

-200 to 200  $W\ m^{-2}$

**Long-term Drift**

Less than 2 %

**Spectral Range**

5 to 30  $\mu m$



## Pyrgeometer

- Sensor
- Typical sensitivity
- Impedance
- Measuring range
- Viewing angle
- Spectral range (50%)
- Operating temperature
- Output

Thermopile

5-10  $\mu V/(W/m^2)$

33  $\mu \div 45 \mu$

-300  $\div$  +300  $W/m^2$

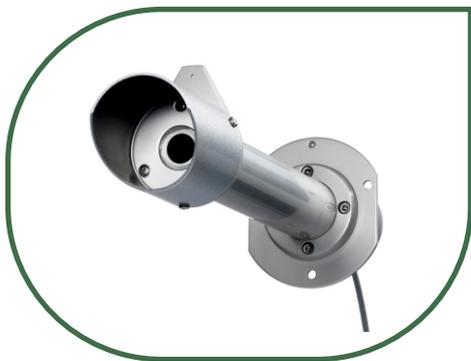
160°

5.5  $\div$  45  $\mu m$

-40 °C  $\div$  80 °C

Analog in  $\mu V/Wm^{-2}$  (LPPIRG01)

Digital RS485 Modbus-RTU (LPPIRG01S)



## Pyrheliometers

- Sensor
- Typical Sensitivity
- Impedance
- Measuring range
- Viewing angle
- Spectral range (50%)
- Output

Thermopile

5  $\mu V/Wm^{-2}$

5...50  $\mu$

0...2000  $W/m^2$

5° (slope 1°)

200...4000 nm

$\mu V/Wm^{-2}$ - Analog 4...20 mA-

Analog 0...1 V, 0...5 V or 0...10 V-

digital RS485



## Quantum (PAR) Sensors / Meters

- Calibration Uncertainty  $\pm 5\%$
- Measurement Range 0 to 4000  $\mu mol\ m^{-2}\ s^{-1}$
- Measurement Repeatability Less than 0.5 %
- Long-term Drift (Non-stability) Less than 2 % per year
- Non-linearity Less than 1 % (up to 4000  $\mu mol\ m^{-2}\ s^{-1}$ )
- Response Time Less than 1 ms
- Field of View 180 °
- Spectral Range 389 to 692 nm  $\pm 5$  nm



## Quantum (PAR) Sensors / Daily Light Meters

- |                                       |  |
|---------------------------------------|--|
| • Calibration Uncertainty             | ± 5 %  |
| • Measurement Repeatability           | Less than 0.5 %                                |
| • Measurement Range                   | 0 to 4000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ |
| • Long-term Drift                     | Less than 2 % per year                         |
| • Field of View                       | 180°   |
| • Spectral Measurement Range (± 5 nm) | 394 to 747 nm                                  |



## Oxygen Sensor with Handheld Meter

- |                             |   |
|-----------------------------|---|
| • Measurement Range         | 0 to 100 % O <sub>2</sub>   |
| • Measurement Repeatability | ± 0.1 % at 20.9 % O <sub>2</sub>                                  |
| • Non-linearity             | Less than 1 %   |
| • Oxygen Consumption Rate   | 0.1 $\mu\text{mol O}_2$ per day at 20.9 % O <sub>2</sub> and 23 C |
| • Response Time             | 14 s (time required to read 90 % of saturated response)           |
| • Operating Environment     | 0 to 50 C   |



## Research-Grade Infrared Radiometer Sensor

- |                               |  |
|-------------------------------|--|
| • Approximate Sensitivity     | 50 $\mu\text{V}$ per C                     |
| • Output from Thermopile      | -3.3 to 3.3 mV                             |
| • Output from Thermistor      | 0 to 2500 mV                               |
| • Input Voltage Requirement   | 2500 mV excitation                         |
| • Measurement Repeatability   | Less than 0.05 C                           |
| • Stability (Long-term Drift) | Less than 2 %                              |
| • Response Time               | 0.6 s                                      |
| • Field of View               | 22° half-angle                             |
| • Spectral Range              | 8 to 14 $\mu\text{m}$ ; atmospheric window |



## Lightscout Solar/Electric Quantum (Par) Meter

The LightScout Solar/Electric Quantum (PAR) Meter with external sensor provides scientifically accurate PAR light readings under solar or artificial broadband light sources. Measures 400nm to 700nm.

LightScout Quantum Light Meters are calibrated for sunlight. Due to differences in the spectrum generated by artificial lights, the following adjustments must be made in the value shown on a sunlight-calibrated meter: Fluorescent: reads 8% high, so multiply the display by 0.92. Metal Halide: reads 6% high, so multiply the display by 0.94. High Pressure Sodium: 0% error—no adjustment needed. Sunlight: 0% error—no adjustment needed.

## Chlorophyll Concentration Meter



**Apogee  
MC-100**



**Konica Minolta  
SPAD 502 Plus**



**FieldScout CM 1000  
Chlorophyll Meter**

<ul style="list-style-type: none"> <li>• Display Output Unit</li> <li>• Measurement Area</li> <li>• Resolution</li> <li>• Linearity</li> <li>• Repeatability</li> <li>• Sample Acquisition Time</li> <li>• Storage Capacity</li> <li>• Internal GPS Storage</li> <li>• User Interface</li> <li>• Data Output</li> <li>• Measured Variables</li> <li>• External Operating Temperature</li> <li>• Temperature Drift</li> <li>• Auto-off Interval</li> <li>• Power Requirement</li> </ul>	<p><math>\mu\text{mol}</math> of chlorophyll per <math>\text{m}^2</math> of leaf surface</p> <p><math>63.6 \text{ mm}^2</math> (9 mm standard diameter), <math>19.6 \text{ mm}^2</math> (5 mm diameter with reducer)</p> <p><math>\pm 10 \mu\text{mol}</math> per <math>\text{m}^2</math> chlorophyll concentration using the generic equation (less for specific species)</p> <p><math>\pm 1 \%</math></p> <p><math>\pm 1 \%</math></p> <p>Less than 3 s</p> <p>8 MB for up to 160,000 data measurements; 94,000 data measurements with GPS data entries</p> <p>8 MB for up to 94,000 data measurements</p> <p>50 mm by 15 mm graphic display screen, 8 push buttons for control and data manipulation</p> <p>Mini-B USB port provided for main data transfer, RS-232 port can be used with GPS for integrated measurement</p> <p>Ratio of optical transmission at 931 nm to optical transmission of 653 nm</p> <p>0 to 50 C</p> <p>Temperature compensated source and detector circuitry over full range</p> <p>4 minutes (with no key press or download)</p> <p>Standard 9 V DC alkaline battery</p>
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## GreenSeeker Handheld Crop Sensor

Use the GreenSeeker handheld to instantly take a reading of your crop's health. Simply aim the sensor on the underside of the device at a crop 24 to 48 inches (60 – 120 cm) away and pull the trigger to get a reading.

Readings can be used to make non-subjective decisions regarding the amount of fertilizer to be applied to your crop, resulting in more efficient use of fertilizer—benefiting your bottom line as well as the environment.



## FieldScout CM 1000 NDVI Meter

The FieldScout CM1000 NDVI Meter offers "point and shoot" technology to measure red (600nm) and near infrared (840nm) spectral bands. Connects to any GPS receiver that has serial output options. Equipped with internal data logger and RS-232 port. Records over 3,000 measurements (1,350 with added GPS/DGPS option). Configure and download your data with the FREE FieldScout Software available on our website.



## NDVI Sensor

Power Supply	Self-powered
Calibration Uncertainty	± 5 %
Output Range	40 mV (Red); 40 mV (NIR)
Wavelength Ranges	Red detector = 650 nm ± 5 nm NIR detector = 810 nm ± 5 nm



## UV-A Sensor

Power Supply	Self-Powered
Output (sensitivity)	0.1 mV per $W\ m^{-2}$ ;
Calibration Factor	10 $W\ m^{-2}$ per mV;
Calibration Uncertainty	± 10 %
Output Range	0 to 10 mV
Measurement Range	0 to 100 $W\ m^{-2}$



## lux Photometric Sensor

Output (sensitivity)	0.001 mV per lux
Calibration Factor	1000 lux per mV
Calibration Uncertainty	± 5 %
Output Range	0 to 200 mV
Measurement Range	0 to 150000 lux

# Light Sensors / Spectroradiometer



## Radiometer Sensor

- Photometric sensor for measuring the illuminance (lux meter) in the spectral range 380÷780 nm
- Radiometric sensor for the UV band (220÷400 nm) with spectral weighing factor S( $\lambda$ )
- Radiometric sensor for UVA band (315÷400 nm)
- Radiometric sensor for the band 400÷700 nm (blue) with spectral weighing factor B ( $\lambda$ )
- Radiometric sensor for the IR band (700÷1300 nm) with spectral weighing factor R( $\lambda$ )
- Thermopile sensor for the measurement of irradiance in the infrared spectral range 400÷2800 nm



## Handheld Spectroradiometer

- Wavelength Range 380 to 780
- Wavelength Data Increment 1 nm
- Spectral Bandwidth Approximately 12 nm (half bandwidth)
- Wavelength Reproducibility  $\pm 1$  nm
- Measurement Range PPFD: 0.1 to 3,500  $\mu\text{mol m}^{-2} \text{s}^{-1}$ ; Lux: 5 to 190,000 lx



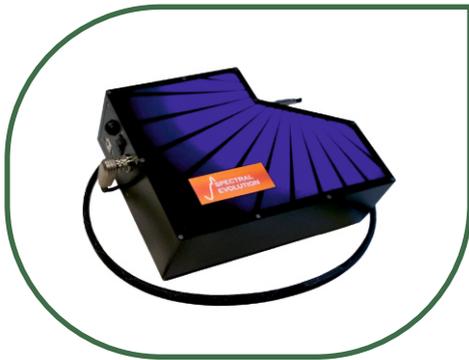
## Full Spectrum Spectroradiometer

- Spectral Range 350-2500nm
- Spectral Resolution 2.8nm@700nm | 8nm@1500nm | 6nm@2100nm
- Spectral Sampling Bandwidth (nm) Data output in 1nm increments; 2151 channels reported
- Calibration NIST traceable sources.
- Noise Equivalence Radiance 0.8-1.8x10<sup>-9</sup> @ 400-2100nm
- Software Included DARWin™ SP Data Acquisition



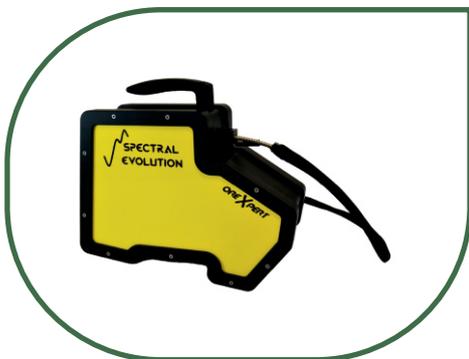
## Lab Spectroradiometer

Wavelength Sensitivity	220 to 1100 nm
Irradiance Calibration Range	300 to 1000 nm
Wavelength Resolution	1.5 nm
Detector Type	CCD, 2048 pixel
Grating Type	Holographic and aberration-corrected, 590 g/nm
Digitizer	16-bit
Signal to Noise Ratio	1000 : 1



## Full Spectrum Lab Spectroradiometer

Spectral Range	350-2500nm
Spectral Resolution	2.8nm@700nm, 8nm@1500nm 6nm@2100nm
Sampling Bandwidth (nm)	Data output in 1nm increments; 2151 channels reported
Spectrometer Type	3 Diffraction Gratings
Calibration	NIST traceable source



## Geology / Mining Spectroradiometer

Spectral Range	350-2500nm
Spectral Resolution	1.5nm (350-1000nm), 3nm@1500nm 3.8nm@2100nm
Spectral Sampling Bandwidth (nm)	Data output reported in 1nm increments 2151 channels reported
Si Detector(s)	1024 element Si Array (350-1000nm)
InGaAs Detectors (TE-cooled)	512 element extended wavelength array (1000-1630nm)

# Radiometer



## Net Radiometer

Input Voltage Range	5.5 to 24 V DC (heaters are optimized to run at 12 V DC)
Response Time (using SDI-12 Protocol)	1 s (SDI-12 data transfer rate; detector response times are 0.5 s)
Heaters (sensors individually heated)	62 mA current drain and 740 mW power requirement at 12 V DC



## 4-Component Net-Radiometer

Typical sensitivity	5...15 $\mu\text{V}/(\text{W}/\text{m}^2)$
Measuring range	0...2000 $\text{W}/\text{m}^2$
Spectral range	300 nm...2800 nm
Typical sensitivity	5...10 $\mu\text{V}/(\text{W}/\text{m}^2)$
Measuring range	-300...+300 $\text{W}/\text{m}^2$
Viewing angle	160°
Spectral range	5.5...45 $\mu\text{m}$ (50%)



## Net Irradiance Meter

Typical Sensitivity	10 $\mu\text{V}/(\text{W}/\text{m}^2)$
Impedance	2 $\Omega$ ÷ 4 $\Omega$
Measuring range	$\pm 2000 \text{ W}/\text{m}^2$
Spectral range:	0.2 $\mu\text{m}$ ÷ 100 $\mu\text{m}$
Response time (95%)	<60 s
Field of view	180° upper sensor 180° lower sensor



## Portable Luxmeter

Measured quantities	lux - fcd - $\text{W}/\text{m}^2$ - $\mu\text{W}/\text{cm}^2$ $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$ - $\text{cd}/\text{m}^2$ - $\mu\text{W}/\text{lumen}$
Batteries	3 1.5V type AA batteries
Autonomy	200 hours with 1800 mAh alkaline batteries
Power absorbed with instrument off	20 $\mu\text{A}$
Input for probes	8-pole male DIN45326 connector

# Visibility Sensors

## Visibility Sensor



Measurement	Visibility, MOR and EXCO
Output	RS232, RS422 or Rs485
Measurement Principle	Forward scatter 45°
Measurement Error	5% at 1,500m
Sensor Power	9 – 36 VDC (5.2W)

## Visibility and Present Weather Sensor



Measurement	Visibility, MOR, EXCO and TEXCO
Output	Present weather.
Measurement Principle	Rs232
Measurement Error	Forward scatter 45°
Sensor Power	2% at 2,000m 19 - 28V DC

## Thunderstorm Detector



Detects	Cloud-to-cloud, cloud-to-ground and intra-cloud lightning discharges
Output	Ethernet or Serial data (Rs422)
Range	83 km (51 statute miles)
Detection efficiency	95% for single lightning flash
False alarm rate	<2%
Range Measurement	0 to 20 km ± 5 km

## Lightning Hazard Early Warning Sensor



Although the statistical probabilities of a direct lightning strike are small, the consequences can be catastrophic. The Lightning Alert System is an advanced lightning warning and atmospheric monitoring device specifically designed to determine when conditions exist where lightning is likely to occur in the local area.

# Tunnel Sensor

## Air Flow Sensors

- Designed specifically for tunnels
- Reliable ultrasonic transit time measurement
- No moving parts or wear items, low maintenance
- Range of on-board outputs, the control unit (TSCU) is optional.
- Separate alignment brackets with latched sensor attachment
- High quality plug and socket connectors for external connections



## Luminance inside Tunnel Sensor

- Accurate measurement of illuminance within the tunnel bore
- CIE Approved measurement technology
- Silicon photo diode,  $\lambda$  filtered to provide a spectral response close to that of the average human eye
- IP65 / NEMA 4X rated external enclosure
- Operating temperature of  $-30\text{ }^{\circ}\text{C}$  to  $+70\text{ }^{\circ}\text{C}$  to ensure stable readings across all prevailing ambient temperature conditions
- Supplied complete with PC based utility software for set-up and control of the instrument

## Road Tunnel Weather Sensor

The RWS-30 Road Tunnel Weather Sensor is designed for use in road and tunnel applications where accurate and reliable visibility measurements are required.





## Luminance at Tunnel entrance Sensor

Measurement of luminance, or brightness, created by natural light at the tunnel portals

CIE Approved measurement of L20

Variable viewing angle within a range of 10° to 40° (factory preset)

Silicon photo diode,  $\lambda$  filtered for spectral response close to that of the average human eye

Rugged 316 stainless steel construction with IP66 protection rating

## Gas Detector Sensors

GEONICA offers several sensors for measuring gases inside tunnels. Among others, CO, CO<sub>2</sub>, O<sub>2</sub>, NO<sub>2</sub> can be measured...

Specific details of each sensor can be found in the corresponding brochures in the right-hand menu.



## Waves Sensors

The Datawell Wave unit is an OEM version of the wellknown Directional Waverider MkIII for measuring wavemotions in three directions. The unit gives out the real time heave, north and west displacements as well as common wave parameters like Hs and Tz and spectral data.

## Gamma Detectors

The Datawell Wave unit is an OEM version of the wellknown Directional Waverider MkIII for measuring wavemotions in three directions. The unit gives out the real time heave, north and west displacements as well as common wave parameters like Hs and Tz and spectral data.





## Opacity & Gases Sensors

Combined measurement of opacity 2 gases simultaneously (CO, NO<sub>2</sub> or NO)

Reduced installation and maintenance costs

Easy calibration without dismantling

Compact housing

## Micro Rain RADAR

The Micro-Rain-Radar MRR-2 represents a new approach in meteorological radar technique to get complete Doppler spectra of hydrometeors in a height between 50 and 6000 meters. Highly detailed resolution in both time and height allow the bright band of the melting zone to be easily identified and monitored. Furthermore derived rain rates can be used for near real time calibration of weather radar data. The MRR is operated in FM-CW mode and complies with the recommendations of EUMETREQ for operation of K-band devices at 24 Ghz.



## Ceilometers

The GEO-LC7600 / 12000 cloud ceilometer is a compact and lightweight instrument for accurate and reliable measuring of cloud height and vertical visibility. The design is based on the LIDAR principle. The light emitting component is a low power diode laser with the output power limited to an eye-safe level. It is designed for both fixed and mobile installations and detects up to three cloud layers simultaneously. The GEO-LC7600 / 12000 ceilometer is ideal for use in aviation and meteorological applications and is suitable for installations on land, ships and for offshore use.

# High End Doppler Sensor



## Doppler SODAR

The Doppler SODAR PCS.2000 uses the back scattering of sound pulses for observation of inversion layers and vertical profiling, wind speed, wind direction, turbulence quantities and stability classes in height ranges starting at heights of 15 m up to more than 1000 m in favorable conditions. A powerful PC-unit is used as a control and processing unit running WINDOWS operating system.

## RASS System

The Doppler SODAR system PCS.2000 can be extended to a RASS system by using a CW radar transmitter and radar receiver units to derive vertical profiles of temperature and temperature gradient or height and strength of inversion layers simultaneously with the SODAR measurement. The RASS is completely integrated in the SODAR operation using the same processing unit running WINDOWS operating system.



## Strong Motion Accelerometer

Second generation Recorder

3 or 6 channels, up to 1000 sps sampling rate

Low noise individual 24-bit  $\Delta$ - $\Sigma$  ADC per channel

Internal built-in and/or external sensors

Wired Ethernet, Wi-Fi and Serial links

Smart NTP timing, GPS time base, or time synchronisation via radio channel or cable



## Pressure Transducers

Supply voltage	6 - 28 VDC (12 VDC typical)
Pressure accuracy	± 0.1% of full scale, temperature corrected
Output	SDI-12 (Version 1.4) and RS-485 Selectable output: Pressure in bar, kPa, psi, or water depth in m, cm, ft. Temperature in °C or °F

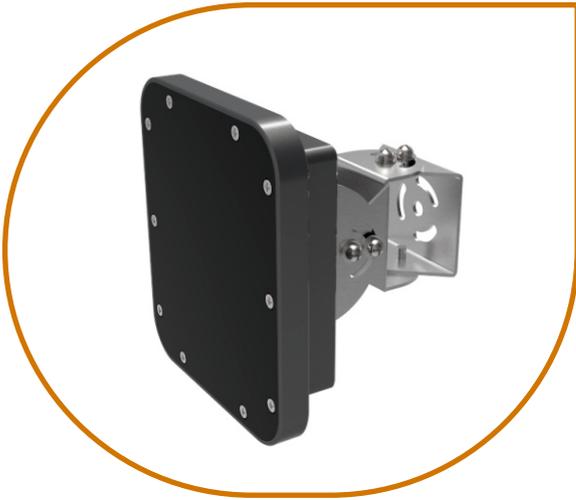
## Non-Contact Level Sensors

The IRU-2420 provides a non-contact method of detecting level, presence/absence detection, volume, proximity and distance. With built in technology to compensate for unpredictable variables such as humidity, temperature and agitators, the IRU is the right sensor for your application.



## Shaft Encoder

Input	Shaft and pulley clamp to accept standard Stevens 18 inch or 375 mm circumference float pulley
Output	4-20 mA, 0.2 to 1 or 1 to 5 VDC as selected on terminal strip.
Range	Determined by selection of gears and potentiometer (see table below)
Torque	Ranges 0-2.5ft, 0-8ft, 0-10ft: 0.3 oz-in or less All other ranges: 0.6 oz-in or less.



## Surface Velocity Radar

Measurement Range	0.05 to 15 m/s. Depending on flow conditions
Speed Selection	Default is meters / second. Feet second is an option
Flow Direction	Bi-directional   Measures backwater situations.
Measurement interval	Up to 1 measurement per second
Resolution	0.1 mm/s (0.0001 ft)
Accuracy	+ - 2% of measured value
Radar frequency	24 GHz (K-band)]
Radar opening angle	12 degrees Azimuth 24 degrees Elevation

## Radar Level Transmitter

Range	0 - 15 m RADAR-2215 0 - 30 m RADAR-2330
Resolution	1 mm
Accuracy	≤2 mm for individual measurements ≤1 mm for averaged values



## Radar Level Sensor

Range:	0 - 08 m GEO-WL08 0 - 15 m GEO-WL15 0 - 35 m GEO-WL35
Resolution:	1 mm
Accuracy:	≤3 mm



## Radar Level Meter

Range:  
0 - 8 m

Resolution:  
1 mm

Accuracy:  
≤5 mm for individual measurements  
≤1 mm for averaged values

## Surface Water Speed

Range: 0.02 - 15 m/s

Resolution: 0.001 m/s

Accuracy: 1%



## Non-Contact Open Channel Water Discharge Sensor

Range: 0.02 m/s - 15 m/s

Resolution: 0.001 m/s

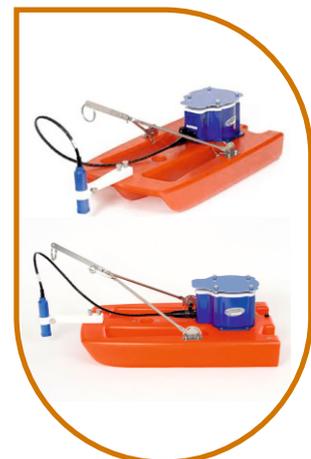
Accuracy: 1%

Level Sensor:

Range: 15 - 35 m

## Current Profiler ADCP

The GEO-StreamPro ADCP represents a revolutionary advancement in velocity and discharge measurements in shallow streams, irrigation canals, water supply, and storm water channels.



# Air Pollution Monitoring System



## Multiparameter Air Quality Monitoring System

### Parameters

Particulate Matter (PM1, PM2.5, PM10, and PM100) sensor module  
Carbon Monoxide (CO)  
Carbon Dioxide (CO<sub>2</sub>)  
Sulfur Dioxide (SO<sub>2</sub>)  
Nitrogen Dioxide (NO<sub>2</sub>)  
Nitrogen Oxide (NO)  
Ozone (O<sub>3</sub>)  
Hydrogen Sulfide (H<sub>2</sub>S)  
Ambient Noise  
Ambient Light and UV Radiation  
Temperature, Humidity, and Barometric Parameters

## Odor Monitoring System

### Parameters

Sulfur Dioxide (SO<sub>2</sub>)  
Hydrogen sulfide (H<sub>2</sub>S)  
Ammonia (NH<sub>3</sub>)  
Methyl Mercaptan (CH<sub>3</sub>SH)  
TVOC (Benzene, Toluene, Xylene)  
Formaldehyde (CH<sub>2</sub>O)  
Nitrogen Dioxide (NO<sub>2</sub>)  
Chlorine (Cl<sub>2</sub>)  
Methane (CH<sub>4</sub>)  
Hydrogen Chloride (HCl)  
Ambient Light and UV Radiation  
Temperature and Humidity  
Ambient Noise



## Dust Monitoring System

### Parameters

Particulate Matter (PM1, PM2.5, PM10, and PM100) sensor Module  
Ambient Light and UV Radiation  
Temperature and Humidity.  
Ambient Noise  
Visible light intensity  
Barometric pressure

# Air Pollution Monitoring System



## Industrial Air Quality Monitor

### Parameters

Particulate Matter (PM1, PM2.5, PM10, and PM100) sensor module  
Carbon Monoxide (CO)  
Nitrogen Dioxide (NO<sub>2</sub>)  
Sulfur Dioxide (SO<sub>2</sub>)  
Methane (CH<sub>4</sub>)  
TVOC  
Chlorine (Cl<sub>2</sub>)  
Nitric Oxide (NO)  
Formaldehyde (CH<sub>2</sub>O)  
Ammonia (NH<sub>3</sub>)  
Hydrogen Sulfide (H<sub>2</sub>S)  
Methyl Mercaptan (CH<sub>3</sub>SH)  
Ambient Noise  
Hydrogen sulfide (H<sub>2</sub>S)

## Indoor Air Quality Monitoring

### Parameters

Temperature  
VOC  
Pressure  
Noise  
Light  
Humidity  
CE, RoHS Certified  
12 months warranty  
Air quality monitoring analytical dashboard



## Outdoor air quality monitoring solution

### Parameters

Particulate Matter	Resolution 0.3 µg/m <sup>3</sup> . Max Error ± 15% (@25°C, 50%RH)
PM10&PM2.5	Humidity, range 0..100% r.H. Accuracy: ± 3 % r.H
Humidity, range	Temperature, range -20..65°C Accuracy: ± 1°C.
Temperature, range	Pressure, range 300..1100 hPa ± 0.6 hPa
Pressure, range	Ambient light resolution 100mLux
Ambient light	VOC Indoor Air Quality Index (IAQ)
VOC	Output
No <sub>2</sub>	Detection Range 0 - 5ppm Full-scale accuracy error ±5% F.S

# Air Pollution Monitoring System

## Air City Quality Sensors

Sensor - Type - Measurement Range

- CO Electrochemical 0-20 ppm
- CO<sub>2</sub> Infrared 0-5000 ppm
- NO<sub>2</sub> Electrochemical 0-20 ppm
- NO Electrochemical 0-20 ppm
- SO<sub>2</sub> Electrochemical 0-20 ppm
- O<sub>3</sub> Electrochemical 0-20 ppm
- H<sub>2</sub>S Electrochemical 0-20 ppm
- NH<sub>3</sub> Electrochemical 0-100 ppm
- Multi-PM 1,2.5,10
- Optical particle counter laser light scattering Measurement range: 0.01 ug/m<sup>3</sup> to 1.5 mg/m<sup>3</sup>
- Total volume 1.2 l/min
- Measured volume 0.22 l/min

## Particulate Matter Transmitter

PMsense is a PM<sub>1.0</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> Particulate Matter transmitter with RS485 Modbus-RTU output, suitable for outdoor air quality monitoring.

The dust particles concentration is measured using the laser scattering principle.

The transmitter is maintenance-free and has fast response, high sensitivity and an excellent stability.

## Particulate Matter Transmitter Datalogger

Data logger for Indoor Air Quality (IAQ) analysis.

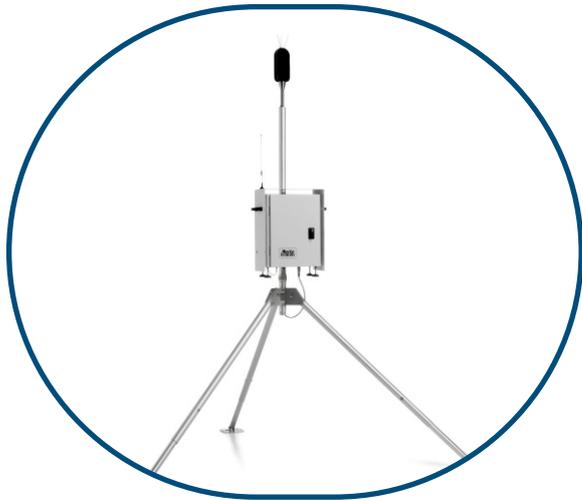
The instruments simultaneously measure the parameters:

- Carbon Dioxide Co<sub>2</sub>
- Carbon Monoxide CO
- Atmospheric Pressure
- Temperature
- Relative Humidity

The instrument calculates:

- Dew Point
- Wet Bulb Temperature
- Absolute Humidity
- Mixing Ratio
- Enthalpy

# Noise Pollution Monitoring System



## Noise Monitoring Station

HD2011NMT is a remote control Noise Monitoring Station with meteorological parameters acquisition. It is designed to be part of a network of noise monitoring terminals or a stand-alone unit.

Monitoring of Road Traffic Noise  
Monitoring of Railway Traffic Noise  
Airport Noise  
Wind Turbine Noise  
Construction Site Noise  
Industrial Plant Noise  
City Noise Mapping



## Sound Level Meter

XPT800 is the high-end model, eldest son of the Expert Line family of handheld Class 1 sound level meters-spectrum analyzers and vibration meters.

Large Color Touch Screen Display – 4.3” vibrant color touch screen provides intuitive navigation and clear visibility of measurement data.

Versatile Storage Options – internal 4GB eMMC, µSD card, and external USB stick options, for flexible data management.

Seamless Wireless Connectivity – enables easy data transfer and remote control with built-in Wi-Fi, 4G, LAN, USB-C, and RS232/485 interfaces.



## Class 1 Integrating Sound Level Meter

The HD2010UC conforms to IEC 61672-1 of 2002 and IEC 61672-1 ed. 2.0 of 2013, IEC 60651 and IEC 60804 specifications with class 2 or class 1 tolerances.

The instrument is suitable for the following applications:

- Assessment of the environmental noise level,
- Occupational noise measurements at the workplace (according to ISO9612)
- Selection of personal protective equipment,
- Production quality control,
- Measurement of machine noise.



## Class 1 Sound Level Calibrator

The HD2020 sound level calibrator is a portable, battery operated sound source, suitable for sound level meters (portable and laboratory) and acoustic stations.

It allows calibrating ½” microphones with mechanical dimensions compliant with IEC 61094-1 and IEC 61094-4.

The calibration pressure levels of 94dB and 114dB can be selected by the keypad. The 1000 Hz frequency cannot be changed.



## Strong Motion Accelerometer

Second generation Recorder  
3 or 6 channels, up to 1000 sps sampling rate  
Low noise individual 24-bit  $\Delta$ - $\Sigma$  ADC per channel  
Internal built-in and/or external sensors  
Wired Ethernet, Wi-Fi and Serial links



## Solar Spectral Measurement System

Global Horizontal Spectral Irradiance (GHSI) or in the plane of array (POA)

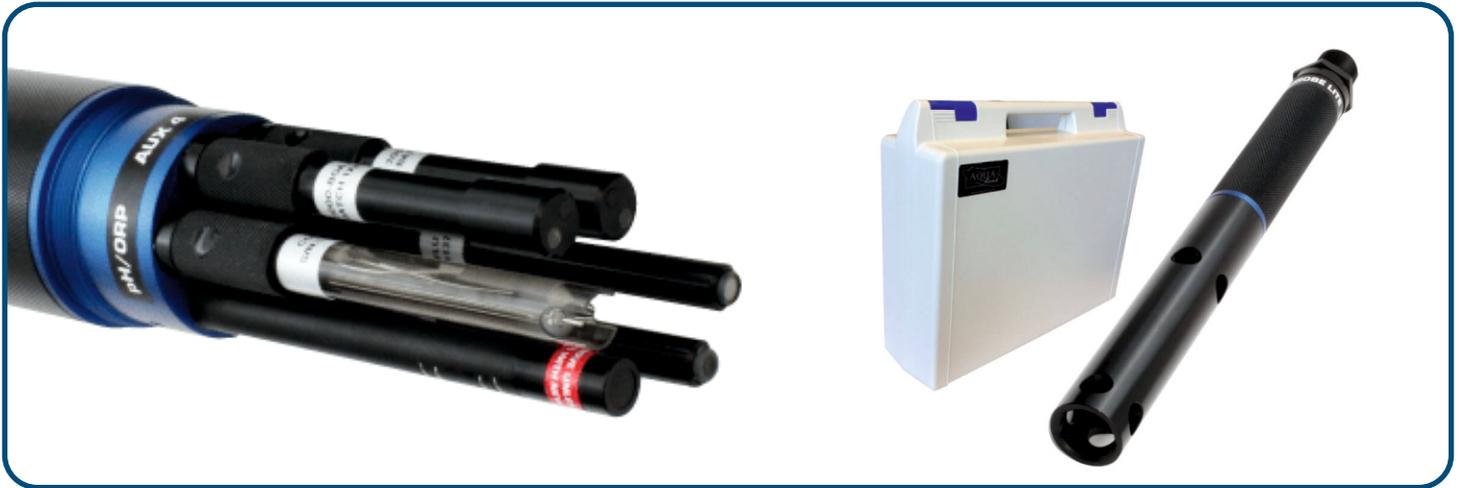
Direct Normal Spectral Irradiance (DNSI)

For the measurement of spectral irradiance in the horizontal plane or in the plane of array, the

SEMS Spectral System uses the spectral pyranometer model GEO-SIM-GPV

# Water Quality Monitoring

## Self Cleaning Multiparameter Water Quality Probe



The AP-7000 Aquaprobe is our largest multiparameter water quality probe. The AP-7000 allows you to add up to 6 additional sensors alongside the standard parameters found on all of our Aquaprobes. The probe is designed for long periods of unmanned monitoring, facilitated by the integral self cleaning system that cleans all sensors installed on the probe.

- Temperature
- Salinity
- ORP
- Chlorophyll a
- CDOM / FDOM
- Fluorescein
- Ammonium
- Calcium
- Ammonia
- Chloride
- Optical Dissolved Oxygen
- Total Dissolved Solids (TDS)
- Depth
- Rhodamine
- Fluoride
- Refined oil
- Nitrate
- Resistivity
- Seawater Specific Gravity
- Specific Conductance
- pH
- Turbidity
- Blue-Green Algae Phycocyanin
- Blue-Green Algae Phycoerythrin



## Water Quality UV Spectral Sensor

Using the Spectral Absorption Coefficient (SAC) at 254 nm, the probe determines the organic content of the water, as well as the COD, TOC and BOD parameters by applying the appropriate correlation coefficients.



## Oil spill sensors

Optical non-contact and autonomous sensor for real-time detection of oil contamination – UV fluorescence technology

OIL DETECTION \* Standard series – Medium (diesel, lubricants etc..) & heavy (crude, bunker fuels etc..) oils Light Fraction – Light (kerosene, jet fuel etc..), including medium, & heavy oils

POWER USAGE <2 Watt (DC)

LIGHT SOURCE pulsed UV LED

DATALOGGING Direct connection to METEODATA / HYDRODATA datalogger



## Precision second thermometer, graphic display

- INTRODUCTION PRO 131.2 and PRO 135.2 are dual channel high class professional handheld meters for thermocouple probes with a rich set of features, high grade robustness and operating comfort for safe and reliable use. PRO 135 also has data logging ...



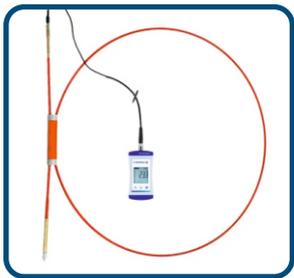
## High precision thermometer, graphic display

- INTRODUCTION PRO 111 and PRO 115 are high class professional handheld meters for 4-wire Pt100 probes with a rich set of features, high grade robustness and operating comfort for safe and reliable use. PRO 115 also has data logging capability. ...



## Waterproof HACCP alarm thermometer with sensor

- The primary focus in the development of the ECO-line was place on the essential functions of the measurement technology. Pure measurement with a focus on precision, speed and reliability packaged in a compact housing distinguish an impressive ..



## Hay temperature measuring device

Protection class : IP65 / 67 (only with waterproof probes in the connected state for devices with BNC connection)

Power supply : 2 x AA Alkaline batteries (included)

Power consumption : ca. 0.4 mA, ca. 2 mA with backlight

Weight : 130 g (without probe)

Measuring range : Temperature -200.0 ... +450.0 °C (-328.0..+842.0 °F) observe



## Vacuum-, Barometer with pressure port

- When developing the ECO240 series, the focus was deliberately on the essential functions of measurement technology - a high-quality sensor is at the heart of this - the heart of the measuring device - on which no savings were made despite the low ...



## Precision barometer, Altimeter

- The primary focus in the development of the new ECO-line was placed on the essential functions of the measurement technology. The heart of the instrument – the sensor – is a high-class component – which excels in this instrument class. The high ..



## Waterproof compact EC-meter - conductivity- meter

- The primary focus in the development of the new ECO-line was place on the essential functions of the measurement technology. Pure measurement with a focus on precision, speed and reliability packaged in a compact housing distinguishing an impressive ...



## MAX - O<sub>2</sub>-Analyser \ air oxygen meter

- The ECO 410 / 410T deliberately focuses on the essential functions of measurement technology for reliable measurement of the O<sub>2</sub> concentration in gases. The sensors used, GOEL 370 and GOEL 381, which are especially suitable for wet environments, are ...



## Compact CO<sub>2</sub> monitor with alarm

- Compact CO<sub>2</sub> monitor with alarm for many applications in air quality monitoring, green houses, energy management and for research and education. The CO<sub>2</sub> is measured with a high-class non-dispersive infrared (NDIR) sensor via opening at instruments ...



## Waterproof alarm thermometer for exchangeable probes BNC

- The primary focus in the development of the ECO-line was place on the essential functions of the measurement technology. Pure measurement with a focus on precision, speed and reliability packaged in a compact housing distinguish an impressive ...



## Combination thermo-manometer, integrated pressure sensor

- INTRODUCTION PRO 915-2 is a differential pressure and temperature high class professional handheld data logger with a rich set of features, high grade robustness and operating comfort for safe and reliable use. FEATURES Display The multilingual ...



## Manometer

- The primary focus in the development of the new ECO 21x series was placed on the essential functions of the measurement technology. The heart of the instrument – the sensor – is a high-class component – which excels in this instrument class....



## Waterproof dissolved oxygen meter (DO) with sensor

- The primary focus in the development of the new ECO-line was placed on the essential functions of the measurement technology.
- Pure measurement with a focus on precision, speed and reliability and compact packaging enable an impressive price/performance ratio.



## Waterproof pH meter

- The handheld meters also impress with their ergonomic design, dust and water-protected design in accordance with IP 65/67 and the illuminated display.
- The compact pH meters are a real alternative to pH sticks on the one hand and high-priced, complex devices on the other.

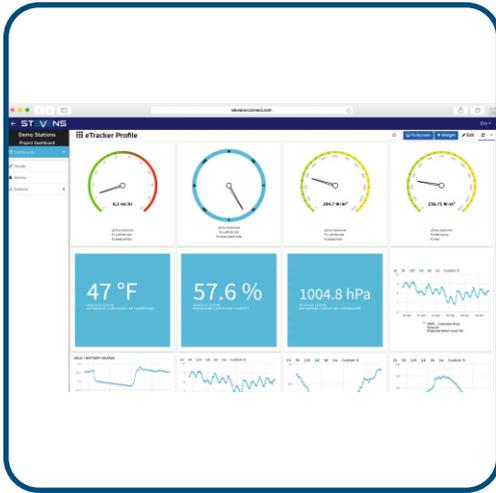


## Multifunctional wateranalysis handheld for DX - digital sensors and pH electrodes

The PRO 595 are high class professional multiparameter handheld meters with a rich set of features, high grade robustness and operating comfort for safe and reliable use in water analysis applications.

They have data logging capabilities and an USB-rechargeable battery system. Water, drop and impact protection is making it a perfect choice for field use, integrated pop-up stand helps in laboratory use.

The combination of a BNC + temperature input for use of economic electrochemical sensors like pH directly and the digital input for long living high quality sensors like optical dissolved oxygen is an innovative combination to suit practical economic requirements.



## AWS Cloud-based Data Management Software

- SkyView 360 is a cloud-based data acquisition and management software system that enables the collection, analysis, reporting, and storage of data from monitoring locations. As a platform-as-a-service (PaaS), SkyView 360 streamlines the data management process through integrating multiple direct and third-party data sources that can be accessed from any computer or smartphone.
- Immediate access to data, anywhere, any device.
- No software to install or reinstall.
- Easily scalable: add additional station data collection when needed. Access data from any number of computers, even simultaneously.
- Data output in XML, Excel, .CSV and other formats
- Alarms with custom / confirmed notifications and auto clearing
- REST API supports integration with 3rd- party apps



## Indoor Air quality analytic software

- Monitor and analyze and visualize all your sensor data easily using HibouAir portal a single web-based platform.
- Historical data visualization in charts
- Provides current Sensor report
- Export your air quality data
- Get Weekly Email Report
- Get Real-time Alert Report
- Fleet management system



## Air Quality Monitoring Software - Envizom

- Envizom™ is an Environmental visualisation and analytics platform for real-time air quality data acquisition. Our Environmental Data Interpretation Engine, powered by Artificial Intelligence & Machine Learning algorithms, provides highly accurate data and actionable insights, empowering users to make well-informed decisions. Envizom™ uses secured HTTPS servers for data storage. Alternatively, this data can also be stored on-premise local servers.
- Real time data
- Smart alerts
- User friendly interface
- Integrate external sensors
- Easy to Set Up
- Advanced Analytics
- Data accessibility
- Reports





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