Dynamax

WEATHER STATIONS

SAPIP-WMET
WIRELESS WEATHER STATION

FEATURES

- **SapIP network for Micro-climate**
- **MaxiMet 500 Compact weather station**
- **Wind Speed & Direction Measurement**
- **Air Temp & RH Measurement**
- **Barometric Pressure Measurement**
- **Dew Point Measurement**
- **No moving parts**
- **AgriSensors.NET data graphics**
- **Access raw and calculated data**

The SapIP-WMET is a complete ETp (Evapotranspiration) weather station which included the SapIP logger and the MaxiMet 500 compact weather station kit. The system comes with all software for programming, data collection, and calculation of ETp. The SapIP-WMET is low-cost weather station ideal for research, commercial, or agricultural applications.

INTELIMET
WEATHER STATIONS

INTELIMET ADVANTAGE 5 FEATURES

- **MaxiMet 500 Compact weather station**
- **Tipping Bucket Rain Gage**
- **Barometric Pressure Measurement**
- **Dew Point Measurement**
- **Wind Speed & Direction Measurement**
- **Air Temp & Relative Humidity Measurement**
- **Solar Radiation Measurement**
- **Lightning rod**

INTELIMET ADVANTAGE 6 FEATURES

- **MaxiMet 600 Compact weather station**
- **Optical Rain Gage**
- **Barometric Pressure Measurement**
- **Dew Point Measurement**
- **Wind Speed & Direction Measurement**
- **Air Temp & Relative Humidity Measurement**
- **Solar Radiation Measurement**
- **Lightning rod**

The InteliMet Advantage is a complete ETp (Evapotranspiration) weather station range that includes the DynaLog200 data logger and the MaxiMet compact weather station kit. The system comes with all software for programming, data collection, and calculation of ETp. The optical rain sensor on the InteliMet 6 model has no moving parts, so needs very little maintenance. A battery and solar panel, grounding kit, and lightning rod kit are also included. The InteliMet's are low-cost weather station ideal for research, commercial, or agricultural applications. The systems comes ready to mount on a 2" rigid pipe, or tripod.

WEATHER STATIONS

DYNAMET WEATHER STATIONS

DYNAMET-2 FEATURES

- **MaxiMet 500 Compact weather station**
- **Tipping Bucket Rain Gage**
- **Barometric Pressure Measurement**
- **Dew Point Measurement**
- **Wind Speed & Direction Measurement**
- **Air Temp & Relative Humidity Measurement**
- **Solar Radiation Measurement**
- **Lightning rod**

DYNAMET-5 FEATURES

- **MaxiMet 500 Compact weather station**
- **Tipping Bucket Rain Gage**
- **Barometric Pressure Measurement**
- **Dew Point Measurement**
- **Wind Speed & Direction Measurement**
- **Air Temp & Relative Humidity Measurement**
- **Solar Radiation Measurement**
- **Lightning rod**

DYNAMET-6 FEATURES

- **MaxiMet 600 Compact weather station**
- **Optical Rain Gage**
- **Barometric Pressure Measurement**
- **Dew Point Measurement**
- **Wind Speed & Direction Measurement**
- **Air Temp & Relative Humidity Measurement**
- **Solar Radiation Measurement**
- **Lightning rod**

The DynaMet Weather Station Range is a complete ETp (Evapotranspiration) system that includes the MaxiMet compact weather station kit and the DynaLog300 or DynaLog1000 data logger depending on the system chosen. The system comes with all software for programming, data collection, and calculation of ETp. The DynaMet's are a low-cost, research grade, weather station ideal for research and commercial, or agricultural applications. They come complete with a 6 ft Tripod, cross-arm, grounding kit, rechargeable battery and 10 Watt solar panel.

WEATHER STATION COMPARISON CHART

Model	Wind	Air Temp.	Humidity	Pressure	Solar Radiation	Rain	Compass	Dew Point	Solar Panel	Logger	Soil Temp.	Soil Moisture	GPS (optional)
MaxiMet 500	✓	✓	✓	✓			✓	✓					✓
MaxiMet 301		✓	✓	✓	✓			✓					
MetPak	✓	✓	✓	✓				✓					
MaxiMet 600	✓	✓	✓	✓		Optical	✓	✓					✓
MetPak Pro	✓	✓	✓	✓				✓					
SapIP-WMET	✓	✓	✓		✓	Bucket				SapIP		O	
MaxiMet 501	✓	✓	✓	✓	✓		✓	✓					✓
IMET-ADV5	✓	✓	✓	✓	✓	Bucket	✓	✓	✓	CR300			✓
IMET-ADV6	✓	✓	✓	✓	✓	Optical	✓	✓	✓	CR300			✓
DYNAMET 2	✓	✓	✓	✓	✓	Bucket	✓	✓	✓	CR300	O		✓
DYNAMET 5	✓	✓	✓	✓	✓	Bucket	✓	✓	✓	CR1000	O		✓
DYNAMET 6	✓	✓	✓	✓	✓	Optical	✓	✓	✓	CR1000	O		✓

✓ = Included O = Optional

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METCONNECT
WEATHER STATIONS

FEATURES
- **Flexible design can be tailored to application requirements**
- **High quality integrated sensors**
- **Robust construction with high IP rated connectors**

MetConnect is a highly flexible, multi-parameter weather station. Individual sensors can be placed together in a compact arrangement, or separated to suit individual application requirements. Additional sensors can be added to the system, and the measurements added to the data reported by the station.

MetConnect is available in two models: MetConnect One, with an integrated wind sensor, and MetConnect THP without a wind sensor.

MetConnect is an update of the MetPak product range.

MAXIMET®
COMPACT WEATHER STATIONS

FEATURES
- **9 models available with a variety of sensor combinations**
- **Easy installation**
- **Maintenance free**
- **Plug and Play**
- **Cost effective**
- **Easy to use software**
- **Robust construction**

MaxiMet is an advanced compact weather station using proven technology to measure meteorological and environmental parameters to international standards.

MaxiMet incorporates all the measurement parameters that meet the requirements of users in demanding applications where cost, quality and performance are essential.

With features such as wind, precipitation, solar radiation, temperature, humidity, barometric pressure, low power 'Eco Mode', GPS, compass, Bluetooth and more, MaxiMet is unique in its ability to provide a wide number of measurements and output protocol options. which makes it easy to install, easy to use, and with zero maintenance.

SONIC
ANEMOMETERS

WINDSONIC
ULTRASONIC WIND SENSOR

FEATURES

- **Low-cost 2-axis ultrasonic wind sensor**
- **Solid-state, maintenance-free**
- **0-60 m/s (134 mph) wind speed, 0-359º wind direction**
- **Corrosion-free polycarbonate exterior**

The WindSonic is a robust, low cost ultrasonic wind sensor with no moving parts. This 2-axis ultrasonic wind sensor offers maintenance-free wind speed and direction monitoring for true 'fit and forget' wind sensing. Never needs re-calibration.

The Gill WindSonic is a genuine low cost alternative to conventional cup and vane or propeller wind sensors, with all of the advantages of solid-state ultrasonic technology. With no moving parts to jam, break, or wear out, this ultrasonic wind sensor is ideal for use in harsh weather conditions.

The WindSonic is a 2-axis ultrasonic wind sensor, providing wind speed and direction data via one serial or two analogue outputs. Versions for RS232, RS422, RS485, SDI12 or analogue outputs are available.

WINDSONIC M
METAL WIND SENSOR

FEATURES

- **Hard-Anodized Aluminium Construction**
- **Optional Heating System**
- **0-60 m/s (134 mph) wind speed, 0-359º wind direction**
- **-40° C to +70° C Operation (heated)**

WindSonic M is a robust ultrasonic wind speed and direction sensor with aluminium alloy construction and optional heating system. The sensor is solid-state with no moving parts, using ultrasonic measurement technology to detect wind speed and direction at speeds up to 60 m/s (134 mph).

The robust aluminium alloy housing is hard-anodized to ensure suitability in harsh marine environments, and the optional heating system allows operation down to -40º C. WindSonic M has been designed to comply with all the applicable sections of BS EN 60945 standard for 'exposed equipment'. These include but are not limited to; corrosion (salt mist), vibration, radiated and conducted emissions and water ingress. This sensor is recommended for use in harsh environmental industrial conditions and is particularly suited to marine and land based installations.

WindSonic M provides a marine-standard NMEA 0183 output, with options for RS232, 422, 485 and analogue outputs also available to ensure compatibility with most systems.

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WINDOBSERVER
INDUSTRIAL ANEMOMETERS

WINDOBSERVER 65

The Gill WindObserver 65 is a precision industrial anemometer, offering wind speed 0-65 m/s (145 mph) and 0-359° direction data in a robust IP66 rated stainless-steel construction. WindObserver 65 has an optional heating system and is available with a range of mounting and connection options.

WINDOBSERVER 70

The WindObserver 70 will monitor wind speeds up to 70 m/s (156 mph), with an optional high-power anti-icing heating system. WindObserver 70 has been accepted for service by the FAA and CAA for reporting of surface wind in airport applications is available with a range of mounting and connection options.

WINDOBSERVER 75

The WindObserver 75 is capable of monitoring high wind speeds up to 75 m/s (168 mph) with an optional on-board anti-icing heating system to allow use in Arctic or Antarctic conditions. WindObserver 75 is available with a range of different mounting and connection options for simple installation.

WINDOBSERVER 90

The WindObserver 90 is capable of monitoring extreme high wind speeds up to 90 m/s (201 mph). WindObserver 90 has an optional heating system and is available with a range of different mounting and connection options for simple installation. The WindObserver 90 is recommended for extreme wind monitoring and is housed in IP66 rated stainless steel.

WINDOBSERVER IS

The WindObserver IS Intrinsically Safe WindObserver is IECEx and ATEX approved for use in hazardous areas. This industrial anemometer will monitor wind speeds of 0-75 m/s (168 mph) and is particularly suited to offshore oil platform applications.

SONIC
ANEMOMETERS

WINDMASTER
3D ANEMOMETERS

WINDMASTER FEATURES

- **Precision 3-axis sonic anemometer**
- **20 Hz Output Rate (32 Hz Optional)**
- **0-45 m/s (134 mph) wind speed, 0-359° wind direction**
- **Aluminium/Carbon Fiber Construction**

The WindMaster 3D sonic anemometer will monitor wind speeds of 0-45 m/s (0-100 mph), providing digital outputs for U, V, and W vectors. Outputs for Speed of Sound and Sonic Temperature are available as standard.

WindMaster is constructed from aluminium and carbon fibre and is available with either a 20 Hz or 32 Hz data output rate. Optional analogue inputs and outputs are available with either 12 or 14 bit resolution.

This 3D sonic anemometer is ideally suited to the measurement of air turbulence around bridges, buildings, wind turbine sites, building ventilation control systems, meteorological and flux measurement sites.

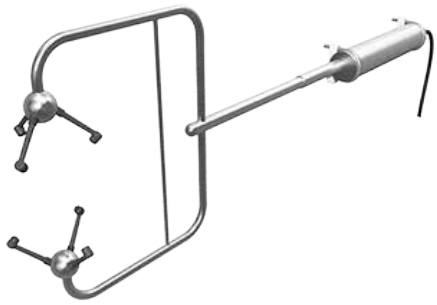
WINDMASTER PRO FEATURES

- **0-65 m/s (145 mph) wind speed, 0-359° wind direction**
- **32Hz Output Rate**
- **U, V, W Vector Outputs**
- **Stainless-Steel Construction**

The WindMaster Pro is constructed from stainless steel and has a maximum operating wind speed of 65 m/s. With a fast maximum data output rate of 32 Hz as standard, improved vertical (W) resolution and Speed of Sound accuracy and less distortion due to wind loading, this 3-axis anemometer is particularly suitable for precision wind measurement applications requiring 3-axis data.

WINDMASTER HS 75 FEATURES

- **Horizontal head for minimal flow disturbance**
- **Integral electronics**
- **0-45 m/s (134 mph) wind speed**
- **Stainless steel construction**



The Gill WindMaster HS provides all of the advantages of the scientific grade HS measurement head design with the ease and feature set from the Gill WindMaster range. The horizontal head design allows for highly accurate vertical flow analysis with minimal interruption from the anemometer geometry.

U, V, W vector components, sonic temperature and speed of sound outputs are available as standard. The WM HS has a stainless steel external construction.

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SONIC ANEMOMETERS

R3 3D ANEMOMETERS

FEATURES

- **Professional Ultrasonic 3D Wind Measurement**
- **50 Hz and 100 Hz models available**
- **U, V & W Vector Outputs**
- **Ideal for Eddy Covariance Analysis and Study of Turbulent Airflows**

The Gill R3-50 is a professional 3D ultrasonic anemometer, ideal for Eddy Covariance analysis and the study of turbulent air flows. R3-50 has a wind measurement range of 0-45 m/s, offers sonic temperature, speed of sound and U, V & W vector outputs, at an output rate of 50 Hz.

The Gill R3-100 utilizes the same advanced wind measurement technology and robust aluminium/carbon fibre construction as the R3-50, with a faster data output rate of 100 Hz.

HS ANEMOMETERS

FEATURES

- **Precision Ultrasonic 3D Wind Analysis**
- **Two models available, HS-50 and HS-100**
- **Highly Accurate Vertical Flow Analysis**
- **Stainless-Steel Construction**
- **Ideal for Study of Turbulent Airflows**

The Gill HS-50 is a precision ultrasonic anemometer, ideal for scientific research studies. The horizontal head design allows for highly accurate vertical flow analysis with minimal interruption from the anemometer geometry. HS-50 will monitor wind speeds of 0-45 m/s and has an update rate of 50 Hz.

HS-100 uses the same robust stainless-steel horizontal-head design as the HS-50, with a faster update rate of 100 Hz. This anemometer is ideal for precision scientific research applications including eddy covariance analysis.

SOLAR RADIATION

SPN1
SUNSHINE PYRANOMETER

FEATURES

- **Global (Total) and Diffuse irradiance in W.m^{-2}**
- **WMO sunshine threshold: 120 W.m^{-2} direct beam**
- **No routine adjustment or polar alignment**
- **No moving parts, shade rings or motorized tracking**
- **Excellent reference light sensor**

The Sunshine Pyranometer is a patented, meteorological class instrument, with built-in heater, designed for long-term outdoor exposure. It is an affordable alternative to shade-ring pyranometers, pyrheliometers and traditional sunshine recorders.

The SPN1 is exceptionally easy to use; it needs no routine adjustment or polar alignment and works at any latitude.

The Sunshine Pyranometer provides 2 analogue voltage outputs for global and diffuse radiation, and a digital output for sunshine duration, which can be connected to data loggers, such as the GP1 and GP2. Readings can also be obtained directly from the RS-232 port.

The SPN1 is good for performing energy balances, solar panel, efficiency monitoring or wherever a reference light sensor is needed.

BF5
SUNSHINE SENSOR

FEATURES

- **No routine adjustment or polar alignment**
- **No moving parts, no shade rings**
- **Outputs can be set to Energy (W.m^{-2}), PAR (µmol.m^{-2}.s^{-1}) or Lux**

The Sunshine Sensor is a patented design*. It uses an array of photodiodes with a unique computer-generated shading pattern to measure incident solar radiation. A microprocessor calculates the Global and Diffuse components of the radiation and determines the sunshine status. A built-in heater keeps the BF5 clear of dew, ice and snow down to -20°C.

Two analogue voltage outputs are provided for the Global and Diffuse radiation. The sunshine state is represented by a digital output (contact closure). The three outputs can be connected to appropriate channels on data loggers e.g. the logger type GP2, or other loggers commonly used for environmental monitoring.

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