

InteliMet Advantage 5 Weather Station



The InteliMet Advantage 5 is a complete ETp (Evapotranspiration) weather station which included the DynaLog200 data logger and the MaxiMet 500 compact weather station kit. The system comes with all software for programming, data collection, and calculation of ETp. A battery and solar panel, grounding kit, and lightning rod kit are also included. The InteliMet 5 is low-cost weather station ideal for research, commercial, or agricultural applications. The system comes ready to mount on a 2" rigid pipe, or tripod.

This automatic ET weather station includes features offered only by the leaders in weather instrument technology. We back all components with a one-year warranty.

Logger, battery and data retrieval software are included and ready to go. Data may be retrieved by a PC, a portable PDA or by long distance communication options. All parts and cables are supplied except for a 6 ft. base pole (a standard 2 in. water pipe) in a cement footing. The crossbar system installed 6 ft. high is light and strong. We supply all the unique parts and let you save money on a costly tripod or tower.

1 in. x 3 ft long pole and cross-arm give flexibility and is easy to mount on any 2" pipe or tower with pipe adapters and mounting hardware supplied by Dynamax.

Dynamax proprietary software records data from the innovative Gill MaxiMet™ GMX500 and a reliable radiation sensor for plant or crop weather applications. The station internally calculates ETo evapotranspiration from the most advanced solution prepared by the Texas A&M University research staff to enhance the accuracy of prior ET computations, (Lascano, Van Bavel – A.S.A. 2006).

MaxiMet™

MaxiMet is an advanced compact weather station designed and manufactured by Gill Instruments 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.



Features

- **MaxiMet 500 Compact weather station**
- **Wind Speed & Direction Measurement**
- **Air Temperature Measurement**
- **Relative Humidity Measurement**
- **Barometric Pressure Measurement**
- **Solar Radiation Measurement**
- **Dew Point Measurement**
- **Lightning rod**
- **10 W Solar Panel Included**
- **CR300 data logger**
- **512 kB of storage**



Specifications

CR300 Logger	
Operating Temperature Range	-40° to +70°C (standard)
Analog Inputs	6 single-ended or 3 differential (individually configured)
Pulse Counters	8 (P_SW, P_LL, C1, C2, and SE1 to SE4)
Voltage Excitation Terminals	2 (VX1, VX2)
Communications Ports	USB Micro B RS-232
Switched 12 Volt	1 terminal
Digital I/O	7 terminals (C1, C2, P_SW, and SE1 to SE4) configurable for digital input and output. Includes status high/low, pulse width modulation, external interrupt, and communication functions. Exception: The SE4 terminal doesn't do external interrupt.
Power Requirements	16 to 32 Vdc for charger input (CHG)
Data Storage	30 MB serial flash

Wind Speed	
Range	0.1 m/s to 60 m/s
Accuracy	± 3% to 40 m/s, ± 5% to 60 m/s
Resolution	0.01 m/s (0.02 mph)
Wind Direction	
Range	0 to 359°
Accuracy	± 3° to 40 m/s, ± 5° to 60 m/s
Resolution	1°
Barometric Pressure	
Range	300 to 1100
Accuracy	± 0.5 hPa @ 25°C
Resolution	0.1 hPa
Units of measure	hPa, bar, mmHg, inHg
Air Temperature	
Range	-40°C to +70°C
Accuracy	± 0.3°C @ 20°C
Resolution	0.1 °C (0.1 °F)
Units of measure	°C, °F, °K
Relative Humidity	
Range	0-100% RH
Accuracy	± 2% @ 20°C (10%-90% RH)
Resolution	1% RH
Units of measure	% Rh, g/m3, g/Kg

Dew Point	
Range	-40°C to +70°C
Resolution	0.1 °C (0.1 °F)
Units of measure	°C, °F, °K
Accuracy	± 0.3°C @ 20°C
Rain Gage	
Sensor Type	Tipping bucket with magnetic reed switch
Housing Material	UV-stabilized ABS plastic
Rainfall Accuracy	±4 %, ±1 rainfall count 0-50 mm/hr (0.01" and 2.00" per hour)
Resolution	0.25 mm (0.01")
Environmental	
Protection class	IP66
EMC	BS EN 61326 : 2013 FCC CFR47 parts 15.109
Operating Temperature	-40°C to +70°C
Solar Radiation	
Absolute Accuracy	± 5%
Spectral Range	380 to 1120 nanometers
Operating Temperature	-40 to 60 °C