

# InteliMet Advantage 6 Weather Station



The InteliMet Advantage 6 is a complete ETp (Evapotranspiration) weather station which included the DynaLog200 data logger and the MaxiMet 600 compact weather station kit, which includes an optical rainfall sensor. This rain sensor has no moving parts, so needs very little maintenance. 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 6 is low-cost, research grade, weather station ideal for research, commercial, or agricultural applications. Comes ready to mount on a 2" rigid pipe, or tripod.

Simple one-pipe, and one-crossbar construction installs in under 30 minutes. The sensors require no wiring and minimal assembly tasks with simple hand tools.

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 10 ft. base pole (a standard 1 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™ GMX600 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

- **GMX600 Compact weather station**
- **Optical Rain Gage Included**
- **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**
- **CR200 data logger**
- **512 kB of storage**



# Specifications

CR200 Logger	
A/D converter	12 bit
Scan rate	once per second (max)
Single-ended analog channel	5, individually configured
Analog voltage range	0 to +2500 mV
Measurement resolution	0.6 mV
Excitation channels	2, programmable for either +2.5 or +5 volts
Switched battery port	1
Pulse count channels	2
Control ports	2
Battery voltage range	7 to 16 Vdc
On-board 12 Vdc lead acid battery charger	
Communications	RS-232

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/m <sup>3</sup> , 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	
Measurement type	Optical
Range	0-150 mm/hr
Precipitation Resolution	0.2 mm
Accuracy	2%
Sampling Rate	1 Hz
Units	mm/hr, mm/total, mm/24 hr, in/hr, in/total, in/24 hr
Heating	Yes
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