ALL ENVIRONMENT PRECIPITATION GAUGE



Model AEPG II 600/1000

ALL ENVIRONMENT OPERATION:

- -55° to +135° F (-48° to +55° C) Operation Range
- Non-stick fluoropolymer collection orifice
- Optional event controlled low power heater
- Optional Belfort wind shield

HIGH RELIABILITY:

- 3 Independent transducers provide redundant measurement (auto compensates for transducer failure)
- On-board processor compensates for temperature and environmental anomalies
- No moving parts
- No input restrictions
- Digital RS-232 output with programmable format

MEETS TOUGH INTERNATIONAL GOVERNMENT REQUIREMENTS:

- High Accuracy: +/- 0.01 inches (0.25mm) or 0.1% FS
- High Resolution: +/- 0.001 inches (0.025mm)
- 8" Diameter (50 in^2 Area) or 16 cm diameter (200 cm^2 area) collection orifice
- Precipitation Rate: 0.01 in (0.25mm)/hr. to 120 in. (304 cm)/hr.
- Capacity: 24 inches (609mm) or 40 inches (1016mm)

EASY TO INSTALL AND MAINTAIN:

- 2 inch ID ANSI Schedule 40 Steel Pipe Mount with 3 screw level adjustment
- LED fault isolation display
- Programmable digital output to display and monitor performance variables

Belfort's years of experience in precipitation measurement is behind the development of this highly accurate, state of the art, all weather precipitation gauge. By combining proven mechanical design with no moving parts with the latest in electronic sensor technology, the AEPG II series of sensors makes it possible to measure all types of precipitation in all weather conditions without human intervention and costly maintenance. By using the latest available technology and manufacturing techniques Belfort is able to offer this latest precipitation product at a fraction of the cost of older mechanical designs.

The All Environment Precipitation Gauge II collects precipitation through an 8 inch (NWS standard) or 200 cm^2 (WMO standard) orifice. Precipitation falls into a bucket which is supported by three precision sensors that weigh the precipitation amount independently and transmits the weight data to a central processing unit that compares each set of data and calculates the amount of precipitation. It converts this measurement into RS-232 format output for digital transmission to a recording device of customer selection. These pulses are transmitted as binary digital signals or as contact closures of a reed relay device.

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SPECIFICATIONS

Capacity	AEPG II 600 24 inch (609 mm) AEPG II 1000 40 inch (1016 mm)
Collection Area	8" Diameter (50 in² Area) 16 cm diameter (200 cm² area)
Precipitation Rate	Range 0.01 in. (0.25 mm)/hour to 120 in. (304 cm)/hour
Resolution	0.001 in. (0.025 mm)
Repeatability	+/- 0.01 in. (0.25 mm)
Accuracy	+/- 0.01 in. (0.25 mm) or 0.1% FS
Output	RS232 configurable to provide inch or metric weight equivalent amount of precipitation (optional transducer frequency output & inlet temperature)
Power Requirement	8-18 volts DC, (3 watts nominal) Optional Heaters: 12 volts DC @ 30/60/90 watts
Operating Temp.	-55° to +135° F (-48° to +55°C)
Storage Temp.	-85° to +300° F (-65° to +150°C)
Construction	Aluminum with high impact UV resistant thermal plastic insulating cover
Weight	28.5 lbs (13 kg)



Consider a Belfort single or double Alter Shield, the perfect compliment to your All Environment Precipitation Gauge

STANDARD FEATURES

- Non-Stick fluoropolymer coated collection orifice
- 0.001 inch resolution RS232 output
- Standard 2 inch ID ANSI Schedule 40 pipe mount

OPTIONS

- 24 inch (609mm) or 40 inch (1016mm) capacity
- Heated collection orifice (recommended for wet snow collection)
- DC powered
- Single or double Belfort Alter Shield
- USB Memory Stick Storage Capability
- Data output options:
  - -in/mm
  - -total weight
  - -transducer frequency/weight
  - - inlet temperature

Rugged construction inside and out!



BELFORT INSTRUMENT
The Standard of Measurement

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