

MODEL 5381: Packaged Weather Station General Description

The HydroLynx 5381 Packaged Weather Station combines the effectiveness of the standard ALERT 5081 Self-Reporting Weather Station with the utility of the 50386 transmitter. In addition to its multiple communication pathways, the 50386 features data analysis which allows data to be processed on site prior to transmission.

Processing data allows the 50386 to transmit averages, maximums, minimums and other computed values; this eliminates the transmission of large amounts of data required for these calculations at the base station. When not limited by the ALERT protocol, data in engineering units with base sets are transmitted.

The standard 5381 consists of wind, temperature, humidity, barometric pressure and precipitation sensors; a 50386-81 Data Transmitter; a solar panel; interconnection cables and omni antenna. An RS232 programming port and SDI-12 sensor input port are standard. The 50386 can be expanded to 16 analog inputs, four low speed counters (rain sensor inputs), four high speed counters (wind inputs), twelve digital status inputs and six digital outputs.

Specifications

Height: 14 ft., including rain gauge
Diameter: 12 in.
Weight: 80 lbs.
Shipping Weight: 90 lbs.

Ordering Information

5381

- Packaged Weather Station
- 5081SA Standpipe Assembly
- 5081SO Standpipe
- 5081MX Antenna Mast and Cross Arm
- 5050A Omni Antenna, 3dB
- 5081C-RG8 Antenna Cable with connectors
- 5054TS Rain Gauge Top Section includes Model 5050P Tipping Bucket Assembly, Funnel and Screen
- 5081LR Lifting Rope
- 50386-81 Transmitter with data logging RTR, Specify radio and frequency
- 5031-18 Gel Cell Battery, 18 AH, 12 Vdc
- 5033-0.6B Solar Panel, Regulator, Mounting Bracket
- 1522 Barometric Pressure Sensor
- 2048RH/T Relative Humidity and Temperature Sensor in 4550 Shield
- 5050WS Wind Speed Sensor
- 5050WD Wind Direction Sensor

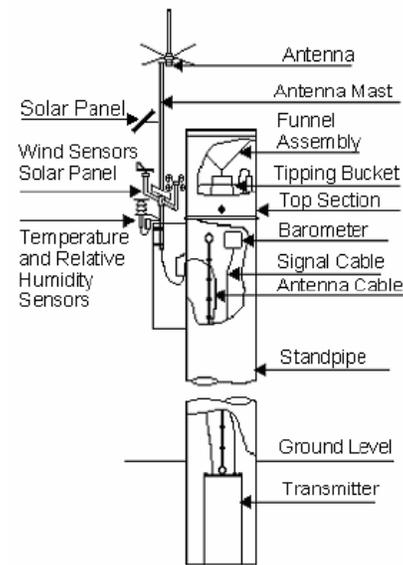
Options

- 5081DAccess Door for Standpipe
- 5050LAAntenna Lightning Protection
- 5081DAccess Door for Standpipe
- 5050LAAntenna Lightning Protection
- 5054SGStandpipe Ground Kit
- SAM160.....Directional Antenna, 10 dB
- 5073TBX.....50386 Toolbox Software
- 50386-OP210 pin MS female digital status connector
- 50386-OP46 serial port expansion



Weather Station, San Bernardino County, CA

- 50386-OP5.....Internal 2400 baud modem
 - 50386-OP6..... Internal power supply
 - 50386-OP7.....GOES radio
 - 50386-OP8.....ScadaLynx radio
 - 50386-OP9.....Microwave Interface
 - 50386-OP10.....GOES Antenna
 - 50386-OP11..... Industrial Dial-up Modem
- See sensor section for optional sensors.



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