ENERGY ENVIROMONITOR® STATION, Standard

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7460 STATIONS

The Energy EnviroMonitor station comprises two components: the Sensor Interface Module (SIM), to which all external sensors are connected, and the console, which performs A/D conversion, calculations, and display of data. A DC-power adapter and 8' (2.4 m) standard 8-conductor cable (for connecting the SIM to the console) are also included. The Energy WeatherLink may be added to the station for data logging and communication with a computer. Variations in system configuration and interconnection are discussed in Application Note 1, "System Configurations, Standard Stations".

SPECIFICATIONS

Ge	ne	ral

 Console Operating Temperature
 -5° to 140° F (-20° to 60° C)

 Display Temperature
 32° to 140° F (0° to 60° C)

 SIM Operating Temperature
 -40° to 150° F (-40° to 65° C)

Connectors.Modular (RJ-11, RJ-12, and RJ-45)Recommended Maximum Cable Length.200' (60 m), SIM to Console

Housing Material Black ABS plastic

Display Type LCD

Dimensions

Sensor Inputs

Surge Protection Micro-gap absorbers, 200±40 V, 500 A (8 x 20 usec)

Sensor Outputs (as displayed on console)

General

Automatic Clear of Maximum and Minimum Values. . . . May be enabled/disabled individually for each function for which it is an option

Time of automatic clear (AutoClear) is user-selectable

Heating Degree-Days (requires External Temperature Sensor, Stainless Steel Temperature Probe, or External Temperature/Humidity Sensor)

(Values based on mean daily temperature are also calculated and displayed by

software)

Daily and Average Degree-Days Resolution and Units . . . 0.1°F or 0.1°C (user-selectable) Total Degree-Days Resolution and Units 1°F or 1°C (user-selectable)

Daily and Average Degree-Days Range 0 to 99.9°
Total Degree-Days Range 0 to 19999°

Functions (Period is selected by user) Daily Degree-Days Sum (AutoClear), Total Degree-Days for period (alarm),

Average Degree-Days per day over period

Wind-Chill Heating Degree-Days (requires Anemometer and External Temperature Sensor, Stainless Steel Temperature Probe, or External Temperature/Humidity Sensor)

Daily and Average Degree-Days Resolution and Units . . . 0.1°F or 0.1°C (user-selectable) Total Degree-Days Resolution and Units 1°F or 1°C (user-selectable)

Daily and Average Degree-Days Range 0 to 99.9°
Total Degree-Days Range 0 to 19999°

Functions (Period is selected by user) Daily Degree-Days Sum (AutoClear), Total Degree-Days for period (alarm),

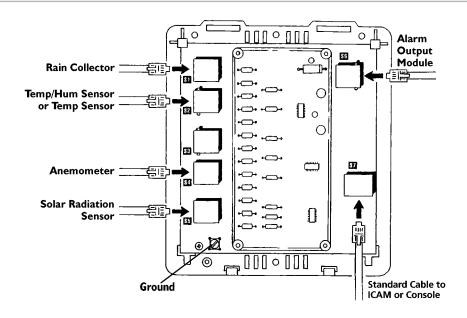
Average Degree-Days per day over period

Cooling Degree-Days (requires External Temperature Sensor, Stainles	ss Steel Temperature Probe, or External Temperature/Humidity Sensor) . Real-time summation; integration interval = 1 minute
Base Threshold	(Values based on mean daily temperature are also calculated and displayed by software)
Daily and Average Degree-Days Resolution and Units.	
Total Degree-Days Resolution and Units	
Daily and Average Degree-Days Range	
Total Degree-Days Range	
Functions (Period is selected by user)	Daily Degree-Days Sum (AutoClear), Total Degree-Days for period (alarm), Average Degree-Days per day over period
Temperature-Humidity Index Cooling Degree-Days (requ	
	. Real-time summation; integration interval = 1 minute
Base Threshold	
Total Degree-Days Resolution and Units	
Daily and Average Degree-Days Range	
Total Degree-Days Range	
	. Daily Degree-Days Sum (AutoClear), Total Degree-Days for period (alarm), Average
	Degree-Days per day over period
	Stainless Steel Temperature Probe, or External Temperature/Humidity Sensor)
Resolution and Units	
Range	
Accuracy	
	. Current Temperature (high and low alarms), Maximum and Minimum Temperatures (AutoClear)
Inside Temperature (Air) (sensor located inside console) Resolution and Units	0.1° For 0.1° C (usor soloctable)
Range	
Accuracy	
	. Current Temperature (high and low alarms), Maximum and Minimum
	Temperatures (AutoClear)
Tomporatura Humidity Indox (TIII) (man and the second seco
Temperature-Humidity Index (THI) (requires External Temperature	
Calculation Method	. See R.G. Steadman, The Assessment of Sultriness, Part I, <i>Journal of Applied Meterology</i> , July 1979 (Application Note 7, "Apparent Temperature: The Temperature-Humidity Index")
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Resolution and Units Range Accuracy Functions Wind Speed (requires Anemometer) Resolution and Units Range Accuracy Functions Wind Run (requires Anemometer) Resolution and Units Range Accuracy Functions Wind Run (requires Anemometer) Resolution and Units Range Accuracy Functions (Period is selected by user) Wind Direction (requires Anemometer) Display Resolution Accuracy Wind Chill (requires Anemometer and External Temperature Sensor, Stair Resolution and Units	See R.G. Steadman, The Assessment of Sultriness, Part I, Journal of Applied Meterology, July 1979 (Application Note 7, "Apparent Temperature: The Temperature-Humidity Index") 1° F or 1° C (user-selectable) For air temperatures above 68°F (20°C): 61° to 125° F (16° to 52° C) ±2°F (±1°C) Current Temperature-Humidity Index (alarm), Maximum Temperature-Humidity Index (AutoClear) 1 mph, 1 km/hr, 0.1 m/s, or 1 knot (user-selectable) 2 to 175 mph, 4 to 280 km/hr, 0.9 to 78 m/s, 2 to 152 knots ±5% Current Speed (alarm), Maximum Speed (AutoClear) 0.1 mile or 0.1 km (user-selectable) 0 to 1999.9 miles (0 to 1999.9 km) ±5% Daily Wind Run Sum (AutoClear), Average Wind Run per day over period 16 points (22.5°) on compass rose, 1° in digital display ±7° **Idess Steel Temperature Probe, or External Temperature/Humidity Sensor) 1° F or 1° C (user-selectable)
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Solar Irradiance (requires Solar Radiation Sensor) Cosine Response $\dots \pm 3\%$ for angle of incidence = 0 to 75° Temperature Coefficient-0.034% per °F (-0.063% per °C); reference temperature = 72°F (22°C) Function......Current Intensity **Solar Energy** (requires Solar Radiation Sensor) $Temperature\ Coefficient\ \dots \dots -0.034\%\ per\ ^\circ F\ (-0.063\%\ per\ ^\circ C);\ reference\ temperature\ =\ 72^\circ F\ (22^\circ C)$ Functions (Period is selected by user) Daily Energy Sum (AutoClear), Average Energy per day over period Rainfall (requires Rain Collector) Total Rainfall Range 0 to 99.99" (0 to 9999 mm) Rainfall Accuracy $\dots \pm (4\% + 1 \text{ count})$ for rates from .01" to 2" (.2 mm to 50 mm) per hour \pm (5% + 1 count) for rates from 2" to 4" (50 mm to 100 mm) per hour Rainfall, Maximum Rate of Rainfall (AutoClear) Barometric Pressure (sensor located inside console) **Relative Humidity** (requires External Temperature/Humidity Sensor) Humidity Values (AutoClear) **Dewpoint** (requires External Temperature/Humidity Sensor)

Time

SENSOR INTERFACE MODULE CONNECTION DIAGRAM



PACKAGED SYSTEMS

Several packaged Energy EnviroMonitor systems are available.

- ▲ Energy Degree-Day System, Standard (#7460ED)
 Includes Energy EnviroMonitor station and External Temperature Sensor or Probe.
- ▲ Wind Energy System, Standard (#7460WE)
 Includes Energy EnviroMonitor station and Anemometer.
- ▲ Solar Energy System, Standard (#7460SE)
 Includes Energy EnviroMonitor station and Solar Radiation Sensor.
- ▲ Comprehensive Energy System, Standard (#7460CE)
 Includes Energy EnviroMonitor station, External Temperature/Humidity Sensor, Solar Radiation Sensor and Anemometer.