

TE Texas Electronics

"Relied on Worldwide in the Most Extreme Conditions"

EWC 100 Controller for Weather Stations **Features & Benefits**



- Ready to use out of the box
- Data logging abilities
- Wi-Fi or 3G connectivity options
- Low power draw
- Accepts a wide range of sensors
- 9 supported plug and play sensors (as of 8/18)

Specifications

Connectivity:	WiFi or 3G
Power:	12V DC, 120V AC, or Solar
Enclosure:	NEMA 4X
Weight:	up to 20 lbs
Size:	13 x 11 x 7 in

Description

The Texas Electronics, Inc. EWC-100 controller is a system that can upload weather conditions via Wi-Fi or 3G depending on which model is chosen. The data is viewable in real time via the Ensentic portal or weather underground, both of which are free to use. This unit can be used with a single sensor or a full weather station worth of sensors. The EWC-100 can handle sensors to measure temperature, humidity, wind-speed, wind-direction, barometric pressure, rain-fall, solar energy, soil moisture and even more all with extremely high accuracy. The controller is based on a STM32 ARM Cortex M3 microcontroller that is responsible for all communications, data collecting and storage, user interface, and measurements conversions.

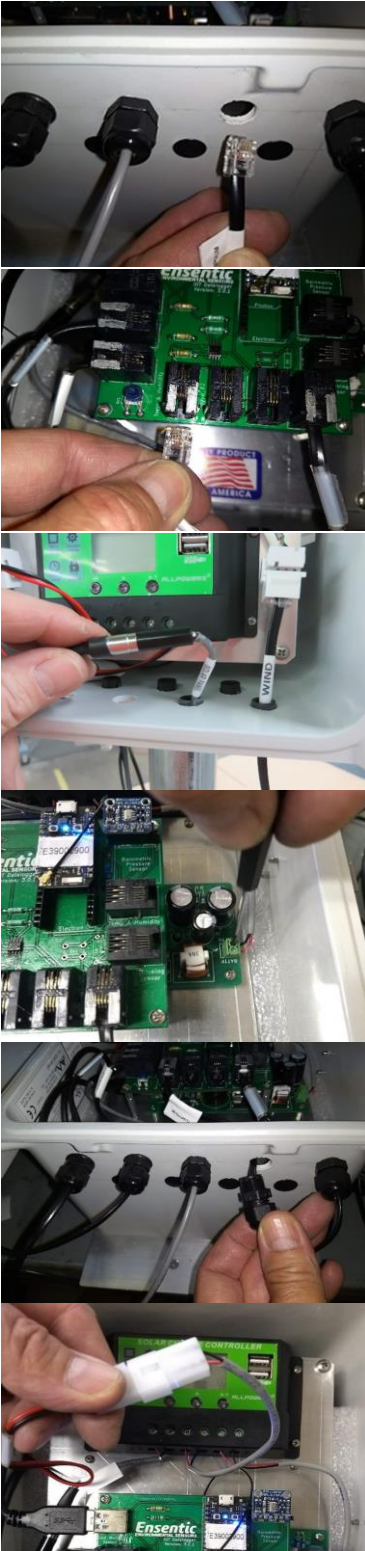
Installation & Maintenance

The controller is programmed and ready to go as soon as you receive it. Just connect to Wi-Fi if you plan on using Wi-Fi and you'll be on your way to collecting data in no time. Then simply plug sensors into the labeled sockets on the internal board and fasten your sensors to the tripod or mast of your choice.

Ordering Information

Model#	Description
EWC-100	Weather Station Controller
Optional Parts/Accessories	
ESA-050	20W Solar Panel Kit
ESW-200	Wind Speed and Direction Sensor
EST-200	Temperature and Humidity Sensor
ESP-100	Solar Sensor
ESR-300	Rain Gauge
ESB-100	Barometric Pressure
ESS-200	Soil Moisture
ESL-300	Lightning Detection Sensor
ESP-110	U.V. Solar Sensor
ESP-120	PAR Solar Sensor
ESA-001	SIM Card
ESH-100	10 Foot Mast
ESH-110	Cross Arm Kit
ESH-115	Solar Sensor Cross Arm Mount
ESH-300	Lightweight Aluminum Tripod

EWC Sensor Connection Steps



- Carefully insert the connectors thru treaded holes at bottom of control panel.
- Connect each sensor to appropriate socket, all should be marked
- If equipped connect the solar panel connector.
- If powering with 12VDC. Make the power connection to the PCB at this terminal. + positive is marked BATT+ and the – is marked BATT-.
- Tighten with O-rings, sealing for water tight connection
- Only after all sensors are attached should you connect the battery