

# TE Texas Electronics

*“Relied on Worldwide in the Most Extreme Conditions”*

## Complete Weather Station

### CWS-1



### Description

The CWS-1 Complete Weather Station is a packaged weather system designed to fit applications where precise weather data is required. The system utilizes the highest quality sensors and rugged mounting hardware to ensure reliable data transfer.

### Features & Benefits

- High quality, research grade sensors
- Rugged, corrosion resistant enamel coating
- Pre-drilled and tapped assembly
- Utilizes weather resistant connectors for all sensors
- Quick and easy assembly

### Installation & Maintenance

The CWS-1 Weather Station is designed to easily assemble with standardized parts. All components are pre-drilled and tapped for simple field assembly with common hand tools and the included corrosion resistant fasteners. The station is designed to be bolted on a user provided cement slab utilizing the 12” square base. (Pattern available upon request.) Placement of a weather station is critical to ensure correct and dependable data. Consult your local regulatory agency for required placement. Or contact us for typical installation requirements. The CWS-1 Weather Station is intended to be maintenance free. However, you should consult each sensor data sheet to see its required maintenance.

### Ordering Information

Model # Description

CWS-1 Complete Weather Station Package

#### Standard package includes the following:

Mast	(w/ base & junction box)
Crossarm	(w/ rain base & wind base)
TV-4	Wind Speed Sensor
TD-4	Wind Direction Sensor
TR-525I	Rain Gauge, 6”
TTH-1315	Temperature & Humidity Sensor

#### Optional Parts / Accessories

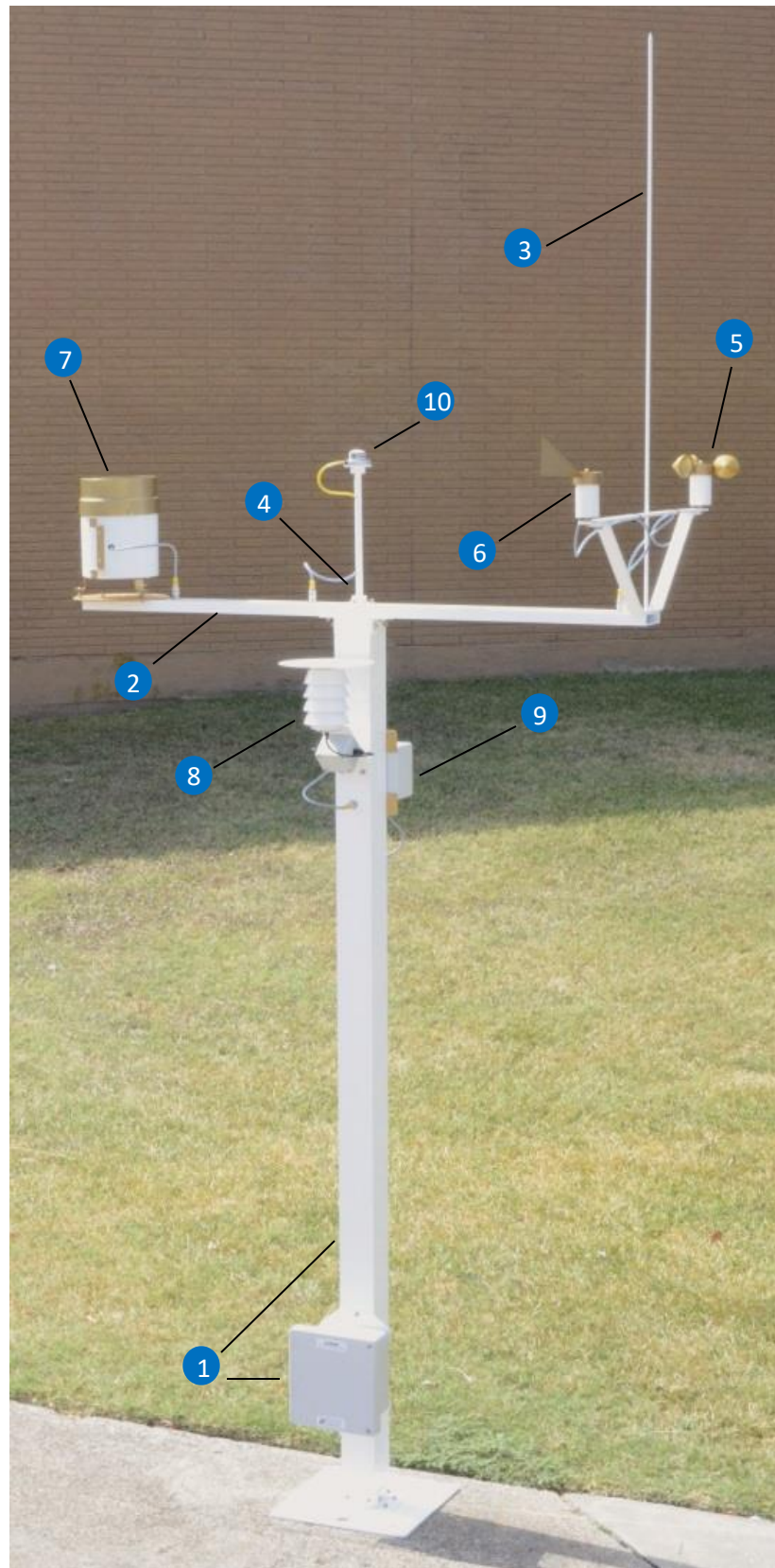
*\*These parts can be added to the standard package above*

Model #	Description
CWS-003	Lightning Rod
CWS-004	Solar Radiation Base
TB-2012M	Barometric Pressure Sensor
SP-Lite	Solar Radiation Sensor

## Custom Packages

Model #	Description
CWS-001	1 Mast (w/ base & junction box)
CWS-002	2 Crossarm (w/ rain base & wind base)
CWS-003	3 Lightning Rod
CWS-004	4 Solar Radiation Base
TV-4*	5 Wind Speed Sensor (Please specify exact model)
TD-4*	6 Wind Direction Sensor (Please specify exact model)
TR-525*	7 Rain Gauge/Tipping Bucket (Please specify exact model)
TTH-1315	8 Temperature & Humidity Sensor
TB-2012M	9 Barometric Pressure Sensor
SP-LITE	10 Solar Radiation Sensor

***\*For a custom system, all pieces need to be ordered individually.***



## Specifications

### Mechanical

#### Mast

Material:	Aluminum Tubing
Size:	3" x 3"
Height:	7'
Finish:	Powder-coat
Wiring:	Quick-release wiring harness

**Crossarm** (w/ rain base & wind base)

Material:	Aluminum Tubing
Size:	1" H x 3" W
Length:	4'
Finish:	Powder-coat
Wiring:	Quick-release wiring harness

**Base** (w/ mast assembly)

Material:	Aluminum sheet
Size:	12" L x 12" W
Thickness:	0.25"
Mounting:	0.75" holes @ 8.75" between center
Finish:	Powder-coat

**Lightning Rod** (Optional item)

Material:	Aluminum rod
Size:	0.25" diameter
Length:	3'
Finish:	Powder-coat

**Solar Base** (Optional item)

Material:	Aluminum tubing
Size:	0.5" diameter
Length:	12"
Finish:	Powder-coat

#### Junction Box

(Standard - Included with mast)

Type:	Fiberglass
Size:	6" W x 8 H x 4" D
Protection:	Nema 4X
Interface:	Cable glands
Connections:	Terminal Strip

#### Electrical

Power:	10-30 VDC
Current:	<250 mA typical (<500 mA for 4-20 mA outputs) Check Sensors for exact current
	Consumption
Warranty:	3 years