



Texas Electronics, Inc.

The Gold Standard in Weather Instrumentation Since 1957

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

Specifications

Mechanical

Mast

Material:	Steel Tubing
Size:	3 x 3"
Height:	7'
Finish:	Baked enamel coating
Wiring:	Quick-release wiring harness

Crossarm

	(w/ rain base and wind base)
Material:	Aluminum Tubing
Size:	1" H x 3" W
Length:	4'
Finish:	Baked enamel coating
Wiring:	Quick-release wiring harness

Base

	(w/ with mast assembly)
Material:	Aluminum sheet
Size:	12" L x 12" W
Thickness:	0.25"
Mounting:	0.75" holes @ 8.75" between center
Finish:	Baked enamel coating

Lightning Rod

	(Optional item)
Material:	Aluminum rod
Size:	0.25" diameter
Length:	3'
Finish:	Baked enamel coating (Optional item)

Solar Base

Material:	Aluminum tubing
Size:	0.5" diameter
Length:	12"
Finish:	Baked enamel coating

Junction Box

	(Standard – Included with mast)
Type:	Fiberglass
Size:	3" W x 5" H x 2.5" D
Protection:	Nema 4X
Interface:	Cable glands
Connections:	Terminal strip

Texas Electronics, Inc.

5529 Redfield Street • Dallas, TX 75235

Tel.214.631.2490 • Fax.214.631.4218 • 800.424.5651

www.texaselectronics.com • email: info@texaselectronics.com

Specifications Cont'd

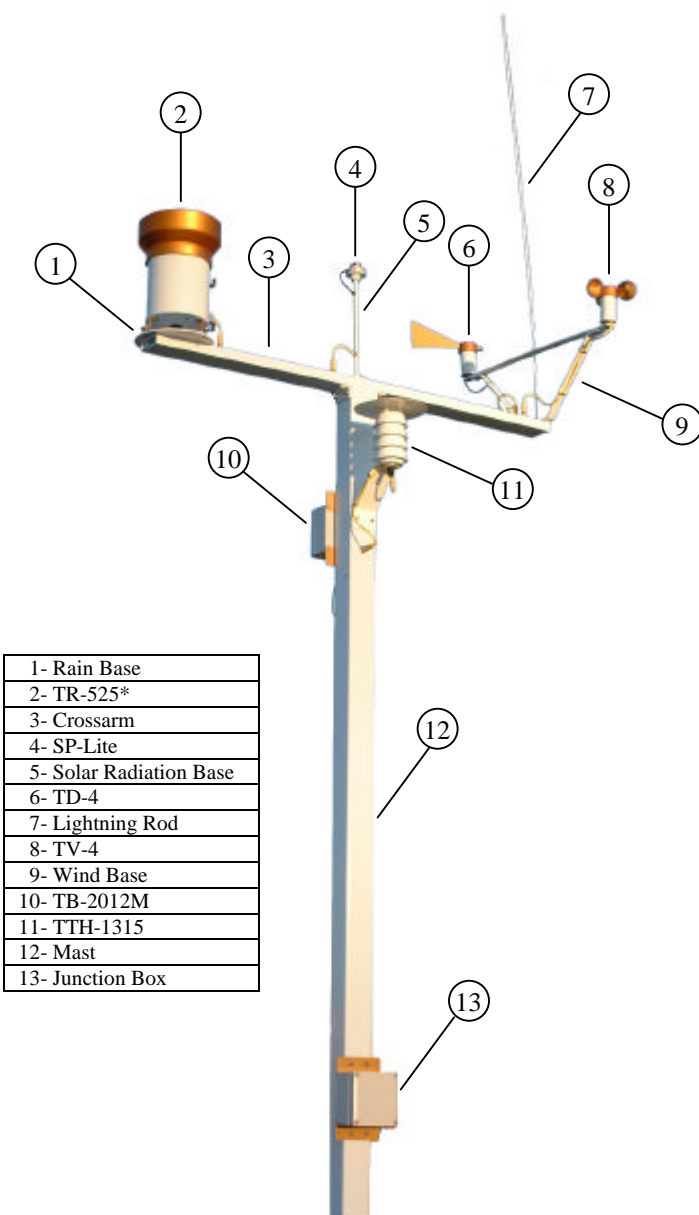
4-20mA Junction Box (Optional item)
 Type: Fiberglass
 Size: 10" W x 12" H x 6.5" D
 Protection: Nema 4X
 Interface: Cable glands
 Connections: Terminal strip

Electrical

Power: 10-30 VDC
 Current: <250 mA typical (<500 mA for 4-20 mA outputs)
 Check sensors for exact current consumption
 Warranty: 3 year

Sensors

See individual spec sheets for each sensor.



1- Rain Base
2- TR-525*
3- Crossarm
4- SP-Lite
5- Solar Radiation Base
6- TD-4
7- Lightning Rod
8- TV-4
9- Wind Base
10- TB-2012M
11- TTH-1315
12- Mast
13- Junction Box

Complete Weather Station (w/ optional parts / accessories)

Installation & Maintenance

The CWS-1 Weather Station is designed to easily assembled 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 and junction box)
Crossarm (w/ rain base and wind base)
TV-4AC Wind Speed Sensor
TD-410 Wind Direction Sensor
TR-525I Rain Gauge, 6"
TTH-1315 Temperature and 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

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

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