

TCS-AWS technical specifications

Power (same data apply with negligible differences regardless of option installed)

Power Supply:18 to 35 VDC or 12V Solar Panel or 12 to 24 VAC
 Backup Battery:Lead type, 12V, 7A/h
 On-board battery charger specifications:Constant voltage type, max 600 mah
 Power consumption (without battery attached):30 ma in stand-by and 110 ma during GSM call

W option (Wind Measurement)

Sensor Type

Wind Speed :Wind cups and magnetic switch
 Wind Direction:Wind vane and potentiometer

Material

Wind Vane and Control Head:UV-resistant ABS
 Wind Cups:Polycarbonate

Resolution of conversion

Wind speed:16 bit counter for a 2 seconds interval
 Wind Direction:8 Bit converter for 360 degrees (maximum resolution 1.41 degrees)

Division

Wind Speed:1 Km/hr (1 m/s, 1Mi/hr, 1 Knot)
 Wind direction :5°

T Option (Temperature Only version)

Sensor Type:Semiconductor type
 Accuracy:Typical at 25°: +/- 0.5° - Maximum +/-1°
 Division:1°
 Resolution of conversion:8 bit (0.5° resolution over extended range)
 Range of measurement:-20°/60°

TH Option (Temperature and Humidity version)

Sensor type:Digital, with both Temperature and Humidity readout
 Measurement range:0-100% RH
 Absolute RH accuracy:+/- 3.5% RH
 Temperature accuracy:+/- 0.5°C @ 25 °C
 On-chip converter resolution:14 bit
 Dewpoint calculation :Accurate to 1 decimal digit

R Option (precipitation measurement)

Sensor Type:Tipping bucket with magnetic reed switch
 Housing Material : UV-stabilized ABS plastic

Dimensions

Rain Collector:16.5 cm diameter x 24 cm high (8.75" diameter x 9.5" high)
 Collection Area :200 cm² (31 in²)
 Division:0.2 mm (or 0.01 in)
 Resolution of conversion:16 bit counter for a 2 seconds interval