



UTHD

Optional-Height, Heavy-Duty Universal Tower



Overview

The UTHD is a durable instrument tower that can be used in a variety of monitoring applications. The UTHD is an aluminum, corrosion-resistant instrumentation tower with four tower height options and high wind load ratings at user-selectable tower heights.

Data logger and power supply enclosures, solar panel(s), crossarms, and other meteorological instrumentation mount to the tower legs. An optional Sun Tracker Mount provides a sturdy platform at the top of the UTHD for permanent deployment of a precision Sun Tracker for advanced solar resource assessment and power performance monitoring. This optional mount works with Sun Trackers such as Kipp & Zonen (Solys2) or EKO Instruments (STR-21G or STR-22G).

Benefits and Features

- › User-selectable height options
- › Sturdy, long-term instrument mount with robust mounting option for industry standard Sun Trackers
- › Higher wind load rating than the UT10, UT20, or UT30 towers
- › Wider legs to enable mounting standard Campbell Scientific mounting equipment
- › Top portion ends without traditional triangle connections and a mast

Specifications

Material	Hardened drawn 6063-T832 aluminum
Required Concrete Pad Dimensions	91 x 91 x 122 cm (36 x 36 x 48 in.) for B18 Concrete Mounting Base
	Concrete pad requirements assume heavy soil; light, shifting, or sandy soils require a larger concrete pad.

-NOTE- Allowable wind gust specifications were calculated with the following: one enclosure, two crossarms mounted with two CM210 crossarm mounts each (one crossarm with a wind monitor, the other crossarm with two pyranometers), and B-18 anchors used to secure the stand to the ground. In addition, the

concrete footing has a 91.4 cm (36 in.) length, a 91.4 cm (36 in.) width, and a 122 cm (48 in.) depth.

Allowable Wind Gusts at 220.98 cm (87 in.)	239.9 kph (149 mph)
Allowable Wind Gusts at 175.26 cm (69 in.)	260.7 kph (162 mph)

Allowable Wind Gusts at 129.54 cm (51 in.)	280.0 kph (174 mph)
Allowable Wind Gusts at 96.52 cm (38 in.)	Not rated
Leg Spacing	43.2 cm (17.0 in.)
Height	User-selectable
Weight	4.16 kg (9.18 lb)

For comprehensive details, visit: www.campbellsci.com/uthd 