





Sturdy, long-term instrument mounts

Overview

The UT20 and UT30 are corrosion-resistant instrument towers that provide sturdy long-term support for Campbell Scientific's sensors, enclosures, and measurement electronics. The UT20 and UT30 have measurement heights of 6 m (20 ft) and 10 m (30 ft), respectively. The towers include one extendable mast and two cable tie kits. They require a mounting base (B18 or RFM18) and grounding kit (UTGND), and Campbell Scientific recommends guying the towers with the UTGUY Guy Kit.

The towers can be used as an instrument mount in a variety of applications. For meteorological applications, they can be augmented with mounts (e.g., CM204 crossarm) that allow attachment of sensors such as wind sets, pyranometers, and temperature/relative humidity probes. Barometers, soil temperature and moisture probes, and rain gages can also be used with a tower-based station.



Ordering Information (see note 1)

oruer	ing information (see note 1)			
Towers			Use the RFM18	
UT20	Universal 20 ft Instrument Tower & Adjustable Mast		to mount the tower on a roof	
UT30	Universal 30 ft Instrument Tower & Adjustable Mast			
Accesso	pries			
B18	Concrete Mounting Base for UT20 or UT30			
RFM16	Flat Roof Mounting Base for UT20 or UT30		19	
UTGUY	Tower Guy Kit (requires either the UTEYE or UTDUK)		1ª	
UTEYE	Eyebolt Anchors for UTGUY		S	KVI
UTDUK	Duckbill Anchors for UTGUY			stabilitional Astronomical and states and
UTGND	Tower Grounding Kit The UTDUK's drive bar is used to drive the duckbill guy anchors in the soil.			
	WANNAWANA AK	The thr guy an bed in	ree UTEYE chors em- concrete.	The B18's stakes embed in a concrete pad.
Specif	fications			

 Π

UT20 UT30 6 m (20 ft) 10 m (30 ft) Height **Shipping Weight** 23 kg (50 lb) 29 kg (65 lb) Material hardened drawn 6063-T832 aluminum 1.5 m (5 ft) length, 3.175 cm (1.25 in) outer diameter **Extendable Mast** [swagged to 2.5 cm (1 in) OD] Vertical Pipe Outer Diameter 2.5 cm (1 in) **Cross Support Pipe Outer Diameter** 0.925 cm (0.375 in) **Guyed Tower Area Requirements** ~3.5 m (11.5 ft) radius ~5 m (17 ft) radius Required Concrete Foundation Dimensions for 91 L x 91 W x 122 D cm (36 x 36 x 48 in) B18 Concrete Mounting Base (see note 2) Maximum Wind Load Recommendations (see note 3) 110 mph (B18 base unguyed); 110 mph (RFM18 base w/UTGUY)

Notes:

- 1. See the Crossarms, Solar Radiation Sensor Mounts, Radiation Shields, and General Mounts brochures for mounting options.
- 2. The concrete foundation requirements assume heavy soil; light, shifting, or sandy soils require a bigger concrete pad.
- 3. The recommended wind load assumes proper installation, proper anchoring, and total instrument projected area of less than two square feet. For the RFM18 base, the wind load recommendation also assumes that the UTGUY's turnbuckles are preloaded just enough to equalize tension and that the tower is guyed at 60 degree angle relative to the ground (maximum). The amount of wind load that these towers can withstand is affected by quality of anchoring and installation, guy wire tension, soil type, guy angle, and the number, type, and location of instruments fastened to the tower.
- 4. The UT30 is Universal Towers' model #9-30. A more detailed drawing of this tower is available at www.universaltowers.com.

 GAMPBELL
 Campbell Scientific, Inc.
 815 W 1800 N
 Logan, UT 84321-1784
 (435) 227-9000
 www.campbellsci.com
 © 1997, 2014

 GENERATIFIC
 USA | AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | ENGLAND | FRANCE | GERMANY | SOUTH AFRICA | SPAIN
 Campbell Scientific, Inc.
 February 6, 2014