

UT10

10-foot Instrumentation Tower



The UT10 is an aluminum, corrosion-resistant tower that provides a 10-ft (3 m) crossarm height (see specifications). This general-purpose tower supports the attachment of sensors, mounts, solar panels, antennas, and environmental enclosures. A lightning and grounding rod, grounding cables, grounding cable clamps, hinged base, anchor bolts, and UV-resistant cable ties are included with the tower.

The UT10 is used as a sturdy, long-term instrument mount for a variety of applications. It can be augmented with mounts (e.g., CM204, CM220, CM225) that allow attachment of meteorological sensors such as wind sets, pyranometers, and temperature/relative humidity probes. Other meteorological sensors such as barometers, soil temperature and moisture probes, and rain gages can also be used with a UT10-based station.



The National Estuarine Research Reserve (NERR) in Virginia uses a UT10 tower to support their meteorological sensors, solar panel, environmental enclosure, and antennas.

Specifications

Required Concrete Pad

Dimensions (see note 2): 24 x 24 x 24 in. (61 x 61 x 61 cm)

Crossarm Height (attached to mast)

Standard: 10 ft (3 m)
Maximum (mast fully extended): ~12 ft (3.7 m)
Minimum: ~9 ft (2.7 m)

Wind Load Recommendation (see note 3):

110 mph maximum

Pipes Outer Diameter (OD)

Vertical: 1 in. (2.5 cm)
Cross Support: 0.375 in. (0.953 cm)

Leg Spacing:

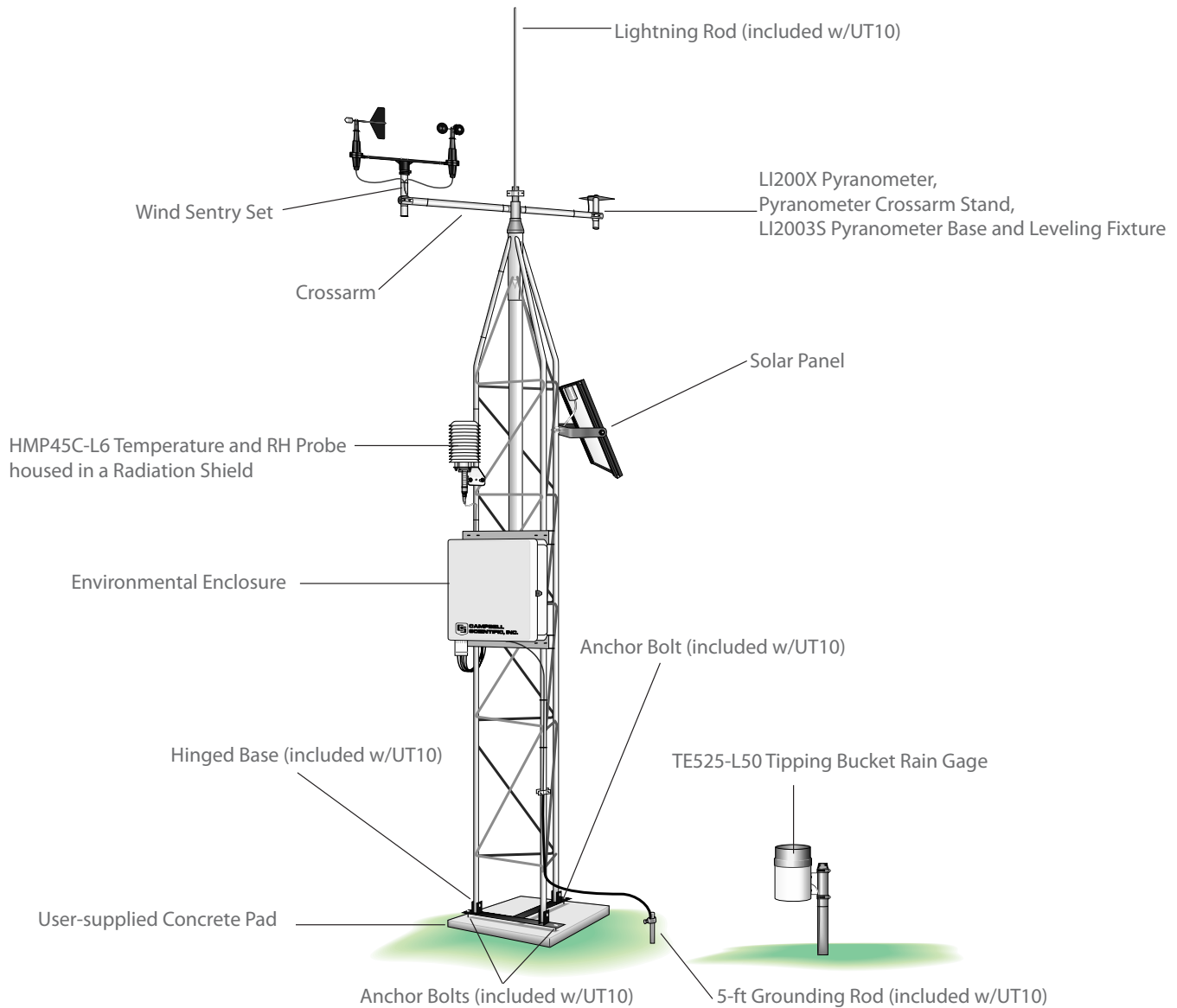
10.25 in. (26 cm) between legs (center to center)

Material:

Aluminum

Shipping Weight:

40 lbs (18 kg)



Notes:

1. Refer to the "Instrumentation Mounts" product brochure for crossarm, solar radiation mounts, and radiation shield options.
2. The concrete pad requirements assume heavy soil; light, shifting, or sandy soils require a larger concrete pad.
3. The wind load recommendation assumes proper installation, proper anchoring, adequate soil, and total instrument projected area of less than 2 square feet. The amount of wind load that this mount can withstand is affected by quality of anchoring and installation, soil type, and the number, type, and location of instruments fastened to the UT10.

