Overview

The CM375 is a corrosion-resistant 10 m (30 ft) mast for applications requiring a tall yet portable instrument mount. It can support sensors, an environmental enclosure, a solar panel, and an antenna. Sensors are attached to the CM375 mast via mounts such as the CM202, CM204, and CM206 crossarms. To reinforce the mount, the CM375 is guyed at 3.7 m (12 ft) and 7.3 m (24 ft) heights. Duck-bill anchors and the guy-wire tensioning kit ensure proper guying.

Benefits and Features

- Light weight (30 kg (66 lb))
- Portable (includes tote with a handle on each end)
- Fast and easy to set up (two people can assemble and tilt up in minutes)
- Corrosion resistant construction (galvanized pipe with stainless-steel base)
- Choice of standard or heavy duty duckbill anchors
- Guy wire tensioning kit offered to facilitate set up

www.campbellsci.com/cm375

More info: 435.227.9120

www.campbellsci.com/cm375
**Guy Duckbill Anchor Kits**

Two duckbill anchor kits are offered as common accessories (see Ordering Information). The 19282 Guy Duckbill Standard Anchor Kit is adequate for most sandy and loamy soils.

Clay soils and other soils with higher corrosive properties will require the 25699 Guy Duckbill Heavy Duty Anchor Kit. These corrosive soils, also known as aggressive soils, have one or more of the following properties:

- High electrical conductivity (>0.33 dS m\(^{-1}\))
- High acidity (pH < 5)
- High chloride concentration (> 1000 ppm)
- High sulfate concentration (> 500 ppm)
- Poor aeration

### Ordering Information

<table>
<thead>
<tr>
<th>Portable Instrument Mount</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM375 Portable 10 m Mast for Lightweight Applications. Includes five 2 m (6.56 ft) galvanized pipes, a stainless-steel base, guy cables, and grounding kit. The guy tensioning kit is recommended. Must choose a duckbill anchor kit (see Accessories).</td>
<td>19282 Guy Duckbill Standard Anchor Kit is for standard soils. Use the 25699 kit (see below) for corrosive (aggressive) soils.</td>
</tr>
<tr>
<td>25699 Guy Duckbill Heavy Duty Anchor Kit is for corrosive (aggressive) soils.</td>
<td>22071 CM375 Guy Cable Tensioning Kit that includes equipment used to tension the guy wires and align the mast.</td>
</tr>
</tbody>
</table>

### Specifications

- **Guy Duckbill Anchor Kits**
  - **Recommended Guy Wire Pretension**: 45.4 kg (100 lb) each
  - **Maximum Allowable Weight of Mounted Equipment**: 34 kg (75 lb)
  - **Maximum Wind Gust (see Wind Gust Assumptions)**: 136 km h\(^{-1}\) (85 mph)

### Wind Gust Assumptions

The amount of wind gust that this mount 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 CM375. The maximum wind gust specification assumes:

- Standard air quality or wind assessment configuration (see Table that follows)

### Wind Gust Assumptions Table

<table>
<thead>
<tr>
<th>Standard Air Quality Configuration</th>
<th>Standard Wind Assessment Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height</strong></td>
<td><strong>Component</strong></td>
</tr>
<tr>
<td>9.1 m</td>
<td>CM204 crossarm with a Wind Monitor and a 43502/43347 aspirated shield and RTD attached</td>
</tr>
<tr>
<td>8.5 m</td>
<td>41003-5 radiation shield housing an HC253 temperature and RH probe; antenna; CM202 2 ft crossarm with a 43502/43347 aspirated shield/RTD attached</td>
</tr>
<tr>
<td>3 m</td>
<td>41003-5 Radiation Shield housing an HC253 temperature and RH probe; antenna; CM202 2 ft crossarm</td>
</tr>
<tr>
<td>1.5 m</td>
<td>1 m</td>
</tr>
<tr>
<td>1 m</td>
<td>ENC16/18 16 in. by 18 in. enclosure housing a CR1000 datalogger and a PS100 power supply</td>
</tr>
</tbody>
</table>

*Check and adjust guy wire tension at least once a month, and after wind gusts exceeding 80 km h\(^{-1}\) (50 mph).*