

# GOES certification standard version 2

Data collection platform  
allows communications  
from extremely remote sites

## Overview

The DCP200 is a data collection platform (DCP) designed specifically for stream stage, water quality, and rainfall applications. This system measures the sensors, processes the measurements, then transmits the data to a receiving station via the GOES system.\*

The DCP200 consists of our CR295X datalogger, TX320 HDR GOES satellite transmitter, Yagi antenna, GPS antenna, ENC16/18 enclosure, antenna cables, power supply, and software. Sensors and mounts are purchased separately.

## Benefits and Features

- › CR295X-based system
- › Transmitter certified as High Data Rate version 2 compliant
- › Makes SDI-12, single-ended analog, pulse, switch closure, and bridge measurements
- › Transmission rates of 300 and 1200 bps supported
- › Automatic GPS correction of clock and oscillator
- › Up to 28 days of operation between GPS fixes
- › Diagnostics and status information that can be sampled by the datalogger and transmitted as part of the data stream
- › Independent self-timed and random data buffers

\*The TX320 product brochure and web pages provide specifications, the GOES authorization procedure, and methods for retrieving data from the ground receiving station.

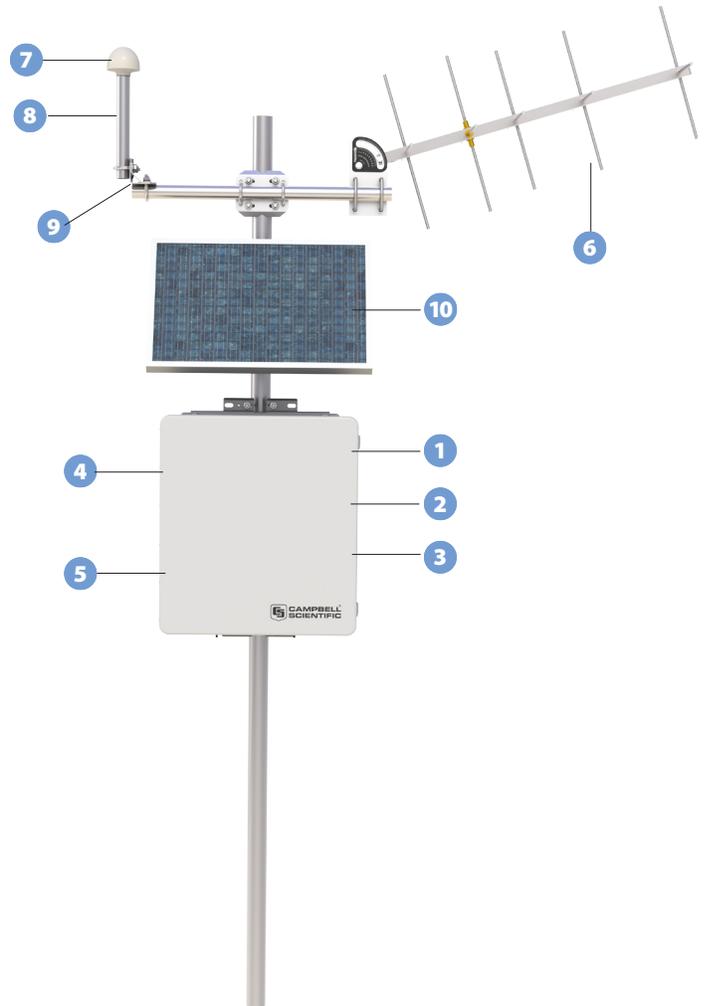
More info: 435.227.9000

[www.campbellsci.com/dcp200](http://www.campbellsci.com/dcp200)



## Standard Components

- 1 CR295X datalogger
- 2 TX320 GOES satellite transmitter
- 3 BP24 24 A h, 12 Vdc battery pack
- 4 CH100 regulator
- 5 ENC16/18 environmental enclosure (with six cable entry seals and entry seals for antenna cables)
- 6 25316 11-dBi right-hand circular polarized (RHCP) Yagi antenna, mounting hardware, and COAXNTN-L12 coaxial antenna cable
- 7 17992 30 dB GPS antenna and 18017-L10 GPS cable
- 8 7623 0.75 in. IPS aluminum pipe
- 9 CM220 right angle mount
- 10 SP20 20 W solar panel



## Customizations

### Mounts

#### Tripod/Tower/Pole

The DCP200 enclosure can be mounted to a tripod mast (option -MM), tower legs (option -TM), or a 4 to 10 in. outer diameter pole (option -PM).

#### Crossarms

The GPS antenna is typically mounted to a CM202, CM204, or CM206 crossarm.

### Sensors

Any sensor compatible with the CR295X can be used with the DCP200. The CR295X can measure a variety of sensors including SDI-12 sensors and 4 to 20 mA sensors. Sensors that are commonly used with the DCP200 are listed below. Refer to the CR200X-series product brochure for a more complete list of compatible sensors.

#### Dissolved Oxygen

- › CS511 dissolved oxygen probe

#### Turbidity

- › OBS-3+ turbidity sensor with optics on side of its body
- › OBS300 turbidity sensor with optics at the end of its body
- › OBS500 turbidity sensor with antifouling

#### Temperature

- › 109 temperature probe
- › 109SS temperature probe for harsh environments

#### Water Level

- › CS451 and CS456 pressure transducers
- › CS410 shaft encoder
- › CS470 and CS471 compact bubblers
- › CS475, CS476, and CS477 pulse radar sensors
- › SR50A sonic ranging sensor

#### Precipitation

- › TE525, TE525WS, and TE525MM tipping bucket rain gages
- › TB4, TB4MM, and CS700 tipping bucket rain gages with siphon

