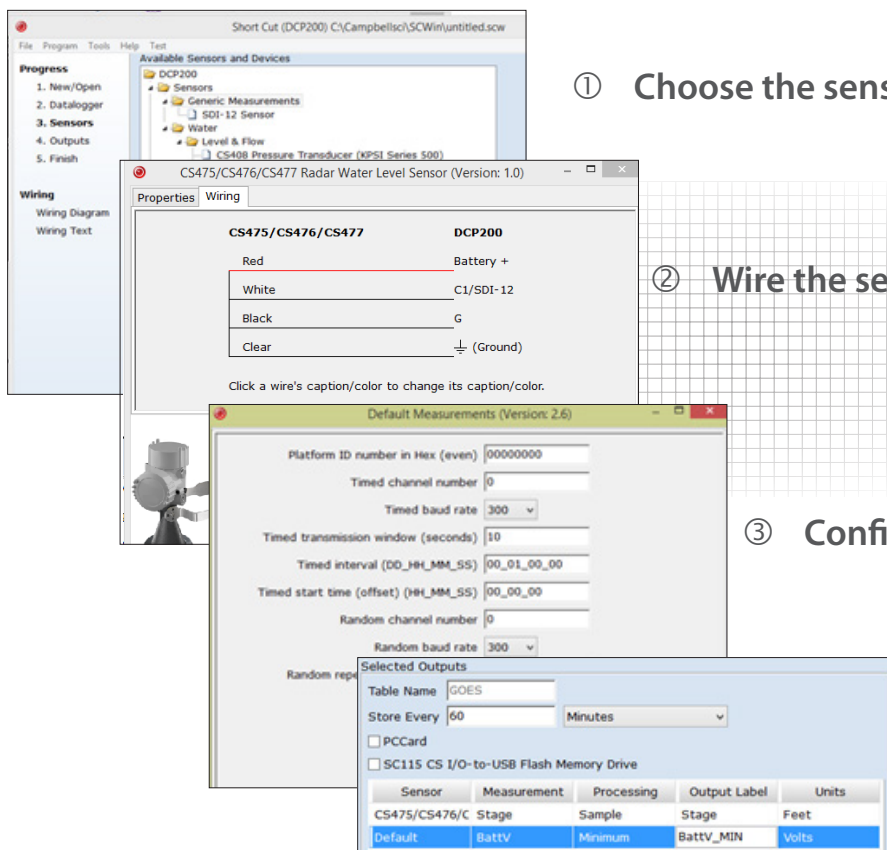


# Simple point-and-click software



① Choose the sensors from a list

② Wire the sensor according to wiring diagram

③ Configure the GOES satellite transmitter

④ Select the data output

Sensor	Measurement	Processing	Output Label	Units
CS475/CS476/C	Stage	Sample	Stage	Feet
Default	BattV	Minimum	BattV_MIN	Volts

## 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, ENC12/14 enclosure, antenna cables, solar panel, and software. Sensors, mounts, and battery are purchased separately.

## Benefits and Features

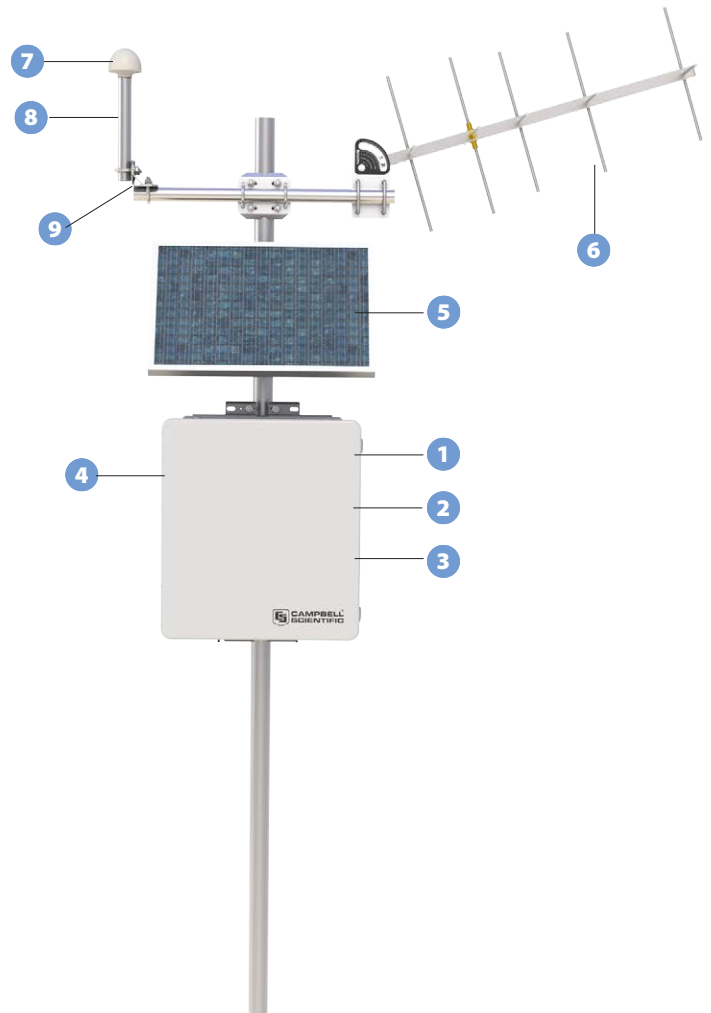
- › CR295X-based system
- › Transmitter certified as High Data Rate version 2 compliant
- › Makes SDI-12, single-ended analog, pulse, switch closure, and bridge measurements
- › Transmission rates of 300 and 1200 bps supported
- › Automatic GPS correction of clock and oscillator
- › Up to 28 days of 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.



## Standard Components

- 1 CR295X datalogger
- 2 TX320 GOES satellite transmitter or HughesNet or Iridium
- 3 CH150 regulator
- 4 ENC12/14 environmental enclosure (with six cable entry seals and entry seals for antenna cables)
- 5 SP20 20 W solar panel
- 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



## 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, CM203, CM204, or CM206 crossarm.

### Battery with Enclosure

A user-supplied battery and enclosure is required. The battery needs to be 12 Ah or larger.

## 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

