

# CS3-HUB

CS3-HUB The Calsense CS3-HUB acts as a “repeater” to surrounding irrigation controllers extending the range of the communication link between the Command Center Online, cloud-based software and the CS3000 controllers. The CS3- HUB can be an irrigation controller, or simply as an integral component for central control communications. It is easily wall mounted or may be factory installed inside an SSE enclosure.

## Description

The communication link between the HUB and the surrounding CS3000 irrigation controllers may be either Local Radio (450-470 MHz range) or Spread Spectrum Radio (line-of-sight) application.

A radio survey is required before final acceptance of Local Radio as the communication method. Calsense will provide this radio survey at no-charge to the user. The Local Radio option requires the end user to license frequencies with the FCC. The Spread Spectrum Radio option does not require FCC licensing. Calsense will assist with application forms and selection of appropriate frequencies if necessary.

## Technical Specifications

### Power

- Input requirement: 120VAC single phase, 1 amp
- Station outputs: 24VAC, 2.0 amps max (short protected)

### Physical

- Height: 16.25” Color: Medium Gray
- Width: 14.50” Material: 16 gauge, powder-
- Depth: 7.25” coated, stainless steel



## Communication Options

The Calsense HUB manages data flow between the Command Center Online, cloud-based software and the surrounding controllers. The following primary choices are available from the CCO to the HUB communication link:

- CS3-GR 3.5G cellular modem
- CS3-EN 10/100 Mbps Ethernet device
- CS3-WEN 802.11b/g Wireless Ethernet (WiFi) device

The secondary communication link between the HUB and the surrounding controllers can be one of the following communication links:

- CS3-SR Spread-spectrum radio (900 MHz)
- CS3-LR Local radio (450-470 MHz)

## Model Part Numbers

CS3-HUB: Base HUB with no communication options, need to specify primary and secondary communication options separately

Example: CS3-HUB/CS3-GR/CS3-LR

This is a HUB with a 3.5G cellular modem as the primary link and the local radio modem as the secondary link to a group of surrounding controllers.

CS3-HUB-OPT: This option is added to a CS3000 irrigation controller acting as a HUB for a group of surrounding irrigation controllers. Primary and secondary communication options are added to this specific controller as well.

NOTE: CS3-HUB works with CS3000 controllers, ET2000e controllers and ET2000 (500 series) controllers.