

Data Sheet

PLUS+1[®]

CS10 Wireless Gateway

The Danfoss PLUS+1[®] CS10 Wireless Gateway is engineered by security experts and designed for the harsh environments common with Off-Highway equipment. The CS10 is a rugged and secure wireless device for machine monitoring – locally or remotely.

CS10 Wireless Gateway enables a CAN system with Wi-Fi and Bluetooth[®] connectivity to a smart mobile application for diagnosis and updates. Connect any two CAN systems by adding a second CS10 to support the CAN Bridging functionality. In addition, the CS10 is a wireless replacement for wired connection interfaces like the CG150.

Secure data encryption and a flexible device API further enhance reliability and integration with existing applications.

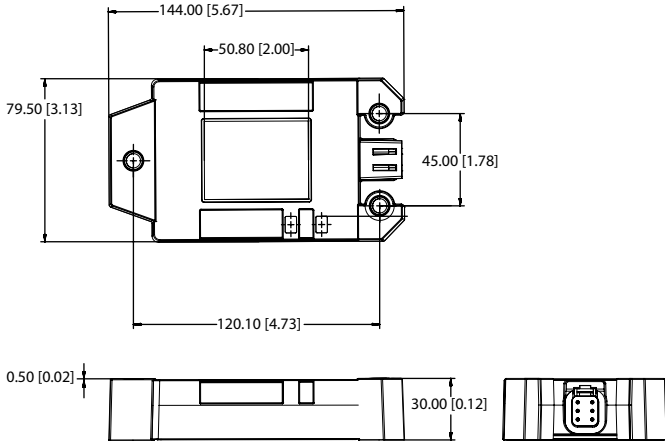


Features

- Wi-Fi Access point and Client
- Bluetooth 4.2 with DLE
- Bluetooth LE peripheral (usable with Client Library API)
- CAN Flexible baud rate (50,100,125,250,500,1000Kbps)
- Supports Internet Protocol v4 and v6
- PLUS+1[®] Mobile Service Tool is the configuration interface for Wi-Fi, Bluetooth, and CAN, as well as firmware updates
- Detect Machine Safe State
- Bridging with any interlink device: CS10-to-CS10
- Delay shut off feature to maintain wireless connectivity through key cycle
- J1939 support, KWP2000, UDS
- API Client library
- LE Secure connections with Just Works pairing model
- Brute force attack protection
- Visual indicators for Power, Wi-Fi connectivity, Bluetooth connectivity, CAN connectivity
- Plug and perform solution
- Power management driven CL15 including low-power mode with cyclic configurable wake-up
- PLUS+1[®] GUIDE programmable
- IP67 (with connector mated)
- Internal memory allows Data Logging
- ARM Cortex-A7 32-bit 400MHz
- 256MB NAND Flash
- 256MB DDR3L SDRAM

Comprehensive technical literature is online at www.danfoss.com

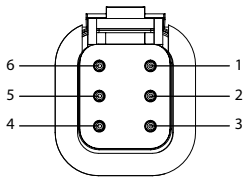
CS10 Wireless Gateway dimensions in mm [in]



Caution

This device is not field serviceable. Opening the device housing voids the warranty.

6-Pin DTM DEUTSCH connector



Pin assignments

| Pin | Function | Pin | Function |
|-----|----------|-----|----------------------|
| 1 | Ground | 4 | CAN Low |
| 2 | Power | 5 | Key Switch |
| 3 | CAN High | 6 | CAN Shield / Pairing |

Interface / protocols / certifications

| | |
|----------------------------|--|
| CAN bus network | ISO 11898-2 High Speed, 2.0A/B |
| Wireless module | Wi-Fi / Bluetooth combo |
| Antenna | Internal |
| Wi-Fi Standards | 802.11 a/b/g/n |
| Bluetooth Standards | 5.0 (BR/EDR & LE) |
| Certifications | FCC, IC, CE/RED, E-mark, IMDA, Australia/New Zealand |
| Vibration | IEC 60068-2-64 |
| Shock | IEC 60068-2-27 Ea |

Use care when wiring mating connector. Pinouts listed are for device pins.

Electrical data

| | |
|--------------------------------|-------------------|
| Operating input voltage | 6V to 36VDC |
| Operating input current | 60mA typ at 24VDC |
| Power consumption | 1.5W typ |
| Shutdown current | 1mA max at 24VDC |
| EMI/RFI rating | 100V/m |

Mechanical data

| | |
|------------------------------|-----------------------------|
| Dimension LxWxD | 144 x 79.5 x 30mm |
| Housing | Tamper resistant |
| Color | Black |
| Operating Temperature | -30C to 70C |
| Storage Temperature | -40C to 85C |
| IP Rating | IP67 (with connector mated) |
| Weight | 110g |
| Status LEDs | 1 red/green, 1 blue/white |

Ordering information

Product part number

| | |
|------------------------------|----------|
| CS10 Wireless Gateway | 11242005 |
|------------------------------|----------|

Related products part numbers

| Description | Part number |
|---|----------------|
| PLUS+1 [®] GUIDE Professional | 11179523 |
| PLUS+1 [®] Service Tool | AQ00000194 |
| PLUS+1 [®] Mobile Service Tool | AQ293083128728 |

Mating connector assemblies

| Type | Danfoss ordering number |
|--|-------------------------|
| Connector bag assembly | 10101551 |
| Connector with 400mm [15.75 in] wire harness | 10101557 |