**Data Sheet**

# Gateway Interface Communicator
# CG150-2 CAN/USB

The Danfoss CG150-2 CAN Interface is an element of the PLUS+1® family of mobile machine management products. The CG150-2 provides a compact and cost effective gateway interface between PLUS+1® Compliant modules on the PLUS+1® Controller Area Network (CAN) and a personal computer (PC) USB port.

The CG150-2 communicator provides the application download of programs to PLUS+1® Compliant devices on the PLUS+1® CAN network and upload/download of application tuning parameters.

Device drivers are imbedded in the PLUS+1® GUIDE (Graphical User Integrated Development Environment) service and diagnostic tool software.

The CG150-2 is compatible with Bosch CAN standard 2.0 A & B (standard and extended data frames) and USB standard 2.0 (Hi-speed).

**Features**

- USB powered
- Supports CAN bit rates up to 1000 kb per second
- CAN messages are time-stamped in 100 ms increments
- Supports both 11-bit (CAN 2.0A) and 29-bit (CAN 2.0B) identifiers
- Supports data and remote frames
- Equipped with 110 cm [44 in] length USB cable and 30 cm [12 in] length CAN cable
- Interface the CAN bus with 9-pin D-SUB connector
- Designed for USB 2.0 (Hi-speed)
- Microsoft Windows XP®; 7; and 8 platforms
- Plug and Play installation
- CAN bus monitor software available at: http://powersolutions.danfoss.com/products/PLUS-1-GUIDE/PLUS-1-software-tools/

Comprehensive technical literature online at *powersolutions.danfoss.com*

## Technical data

| | |
|---|---|
| **Dimensions** | 35 x 165 x 17 mm |
| **Power supply** | USB |
| **Current consumption** | (approximately) 90 mA@5V |
| **Operating temperature range** | 0° C – 70° C [32° F – 158° F] |
| **Storage temperature range** | -40° C – 85° C [-40° F – 185° F] |
| **USB version** | 2.0 (Hi-speed) |
| **Clock accuracy** | 100 µs |
| **LED indicators** | 2 |
| **Bit rate (kb/sec)** | 40 – 1000 Kbits/sec |
| **CAN physical layer** | High speed (ISO 11898-2) |
| **Galvanic Isolation** | Yes |
| **Clock syncronization of multiple devices** | No |
| **Maximum message rates msgs/sec** | 8000 |
| **Time stamp (bits)** | 32 |
| **Error counters reading** | No |
| **Mix 11/29 bit messages** | Yes |
| **Error frame detection** | Yes |
| **Error frame generation** | No |
| **Silent mode** | No |
| **Sound indicator** | No |
| **CAN connector** | 9-pin male D-SUB |
| **USB cable length** | 110 cm [44 in] |
| **CAN cable length** | 30 cm [12 in] |
| **Auto transmit buffers** | No |
| **Auto response buffers** | No |
| **Load dump protection** | Yes |
| **Polyurethane cabling** | Yes |

## Ordering Information

| | |
|---|---|
| CG150-2 CAN/USB Gateway Interface Communicator | Part Number 11153051 |

## Status Light



CAN activity — Power on
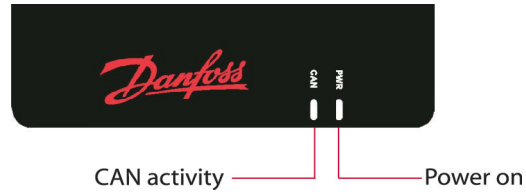
## CAN pin configuration

*9-pin male connector, front-side view*



Pin 2 — Pin 3

Pin 7
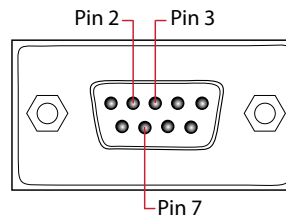
| Pin | Function |
|---|---|
| 1 | - |
| 2 | CAN – |
| 3 | Shield/ Ground |
| 4 | - |
| 5 | - |
| 6 | - |
| 7 | CAN + |
| 8 | - |
| 9 | - |