![SAUER DANFOSS]

CG150 CAN/USB Gateway Interface Communicator

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INTRODUCTION

The Sauer-Danfoss CG150 CAN Interface is an element of the PLUS+1™ family of mobile machine management products. The CG150 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 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 is compatible with Bosch CAN standard 2.0 A & B (standard and extended data frames) and USB standard 1.1 & 2.0.

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, backward compliant with USB 1.1

- Microsoft Windows XP® & Windows 2000® platforms.

- Plug and Play installation

- CAN bus monitor software available on the Sauer-Danfoss PLUS+1 website: www.sauer-danfoss-plus1.com

Technical data

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Dimensions	100 x 25 x 20 mm [4 x 1 x 0.75 in]
Power supply	USB
Current consumption	(approximately) 70 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	2.0.1.1
Clock accuracy	100 µs
LED indicators	2
Bit rate (kb/sec)	5 – 1000 Kbits/sec
CAN physical layer	High speed (ISO 11898-2)
Galvanic Isolation	No
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	No

Status Lights

Power on — CAN activity

CAN pin configuration

CAN pin configuration

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

Pin 2 — Pin 3

Pin 7
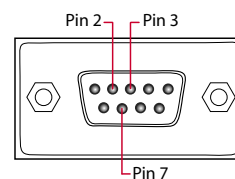
9-pin male connector, front-side view

Ordering information

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CG150 CAN/USB Gateway Interface Communicator	Part Number 10104136