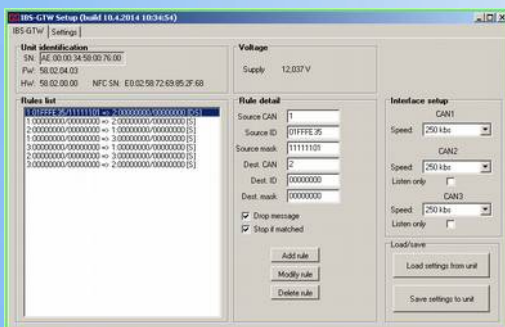


IBS - the Imcon Bus System is an ideal solution for fast, cost effective implementation of the CAN Bus network and multiplexing technology. The complete range of products allows designers to be more productive and to integrate new functions with less wiring.

IBS-GTW

Multipurpose CAN networks gateway
Two or three CAN busses can be connected
Third Generation



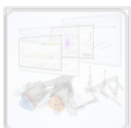
Displays
Keypads



Control units



Sensors



Accessories

Features

- Interface CAN 2.0A/B
- Interconnects 2 or 3 CAN busses
- Busses can work at different rates
- User-configurable rules
- Message forwarding between busses
- Small dimensions
- Low power consumption in sleep mode (if no active communication)
- One channel with galvanic isolation
- Cost-effective 2 CAN variant
- Heavy duty design, sealed to IP67

Description

In the basic design, the CAN gateway unit separates two CAN busses physically, can filter and modify messages or possibly create a bridge between up to three physical CAN interfaces.

The most common application is the physical separation of the car backbone bus (listen-only mode) to the FMS user gateway (Fleet Management System) and substitute of the "Fuel level" message (PGN 65 276, according to

SAE J1939) from CAN bus of external level gauge.

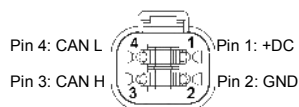
Customer modifications allow replacement of one CAN bus channel with physical fault-tolerant CAN interface, or RS485, LIN, DTCO (Infois).

The unit is provided with a robust, hermetic filled box with sealed electronics linked by reliable watertight connectors Deutsch DT in accordance with ISO and SAE standards.

IBS-GTW communicates with other units in the system using the CAN 2.0 A/B protocol. CAN2 (CAN3) bus is connected by 3-pin connector according to SAE J1939-11 as a CAN bus branch(?). The network is terminated by a 120 ohm resistor.

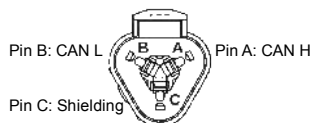
Using a supplied program (over CAN1), up to 50 rules for forwarding or filtering of messages between CAN busses can be defined.

Connection



IBS CAN network

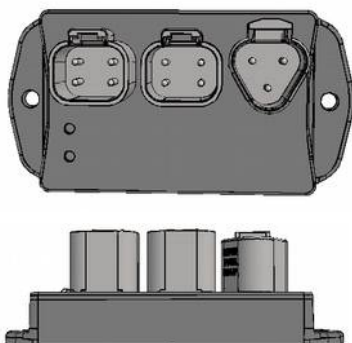
Mating plug: DT06-4S + W4S



SAE J1939-11 CAN network

Mating plug: DT06-3S + W3S-1939

Enclosure



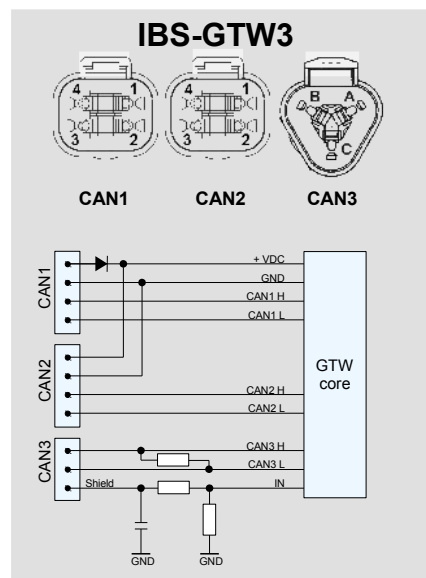
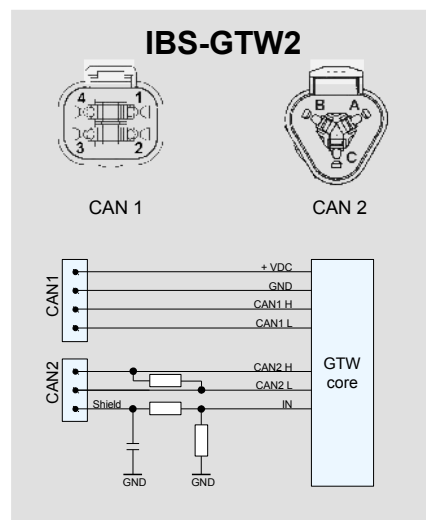
LED Indicators

LED Power - power supply and communication status

- red CPU not running
- red blinking low supply voltage (500ms)
- green + communication indication (500ms)
- green supply voltage OK (500ms)
- red + communication indication (500ms)

LED Status - communication on CAN2 bus

- green messages being received
- red message sending error



General Specifications

Operating voltage	9 to 32V DC
Interface	3xCAN 2.0A/B (IBS-GTW3) 2xCAN 2.0A/B (IBS-GTW2) with or without terminating resistor 120 Ω
Temperature	Operating: -30 to +85°C Storage: -50 to +85°C
Protection	IP67

Ordering Information

IBS-GTW2-03	gateway 2xCAN	CAN1: 2x4 pin connector IBS CAN CAN2: 1x3 pin connector J1939-11
IBS-GTW3-03	gateway 3xCAN	CAN1+2: 2x4 pin connector IBS CAN CAN3: 1x3 pin connector J1939-11
IBS-GTW2-FMS0 IBS-GTW3-FMS3 IBS-GTW*-****	application option - backbone CAN separation from FMS fuel level message substitution in FMS user modification of the CAN gateway (**** - modification number – ask a technician)	
IBS-CPC	CAN-USB adapter for configuration utility	



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