VEHICLE GATEWAY

CANVG01

NEMA 4X

ABS Plastic

Overview:

The INC CANopen Vehicle Gateway allows the user of a CANopen or DeviceNet network to access data from a vehicle that uses standard serial communications including J1587, J1939, DINBUS and MTU protocols.
The user must map each message that the user wants to receive. The data can then be read using SDOs or mapped into PDOs in the CANopen module or Explicit or I/O with DeviceNet. The gateway also has 254 variables of each supported data type (UNSIGNED8, UNSIGNED16, UNSIGNED32, SIGNED8, SIGNED16, SIGNED32, REAL32) available for data input. The input data variables allow the user the option of converting the data from different vehicle network variables and make it accessible on the CANopen network through the same location. This feature of the gateway allows the user to write programs based on the data they need, and the not worry about how the data is received or what type of engine is used. The conversion can change data types as well as change units by using the user's conversion factors. The gateway includes a Windows based configuration tool that allows all messages to be mapped and tested in a Windows environment. The configuration can then be downloaded to the display using one of several supported CANopen interface cards. The gateway can also be configured using the included EDS file or through SDO commands. The gateway can support up to 8 TxPDOs and 8 RxPDOS. The user must map the data they want into the PDOs.

The gateway is available in three different enclosures, economical black ABS plastic, Nema 4 aluminum alloy, or Nema 4X polycarbonate. All versions (except with internal screw terminal connections) are potted to help protect against vibration, shock, and foreign matter. The Network connector is available in a standard 5 pin sealed micro connector or a low cost 5 pin Combicon connector with screw flanges. The Combicon connector allows the use of lower cost cabling, and also allows the use of a dual row Combicon plug to facilitate the daisy chaining of modules in the network.

Network Operation:

The DeviceNet version supports UCMM Explicit, Poll, Peer-to-Peer, COS, and Strobe connections.
The CANopen version supports communication through SDOs and PDOs.
Please see the CANRS01 CANopen and CANRS01 DeviceNet Network Specifications for more details.

Applications:

Engine Interface, Drive Train Interface

Ordering Information:

Order #: CANVG01-NT-NC-NI-PT1-C1-PT2-C2-EN-T

Abbreviation	Meaning	Option
NT	Network Type	CO= CANopen DN= DeviceNet[tm]
NC	Network Connector	MC=5 pin micro CB=5 pin Combicon with screw flanges (available only in econo enclosure)
NI	Network Isolation	NI= Non-Isolated IS= Isolated (Isolation is required for DeviceNet[tm] compliance if the unit is connected to a device powered by a source other than DeviceNet[tm])
PT1	Port 1 Type	232= RS232 (DinBus) 485= RS422/RS485 (J1587)
C1	Connector Port 1	DB= DB-9M ST= Internal Screw terminals w/strain relief PT= Pigtail w/strain relief (please specify cable type and length when ordering)
PT2	Port 2 Type	232= RS232 485= RS422/RS485 (J1587) CAN= CAN (MTU,J1939)
C2	Connector Port 2	DB= DB-9M DF= DB-9F ST= Internal Screw terminals w/strain relief PT= Pigtail w/strain relief (please specify cable type and length when ordering) CB= 5 pin Combicon with screw flanges MC= 5 pin Micro
EN	Enclosure Type	AB=ABS AL=Nema 4 Aluminum PC=Nema 4X Polycarbonate
T	Temperature Range	C=Commercial (0-70C) E=Extended (-40 +85C)