

The XCAN-AC generator to CAN bus module collects analog input signals from the generator then converts and broadcasts the data onto the SAE J1939 CAN bus. Use the XCAN-AC module in conjunction with the Controls, Inc. "G Series" display units for complete engine and generator monitoring.

OPERATION

The XCAN-AC module installs into the generator end isolating all high voltage circuits. Upon power-up, the module broadcasts AC Volts, Amps, Frequency and Phase Angle onto the Can bus. In addition, parameters such as KW, Power Factor, KVA and Totalizing KWH are calculated and broadcast.

KEEP IT SIMPLE

The XCAN-AC is available individually or bundled with the G Series module. Harnesses are available for a complete installation. Generator panels with the G Series module are also available.



G4-100 Module

ADVANTAGES

RELIABLE

Rugged, sealed housing with water tight connectors for tough environments.

ISOLATED HIGH VOLTAGE

With the XCAN-AC mounted inside the generator end, no high voltage wiring to the display unit is necessary.

REDUCED WIRING

Because the generator information is broadcast on the CAN bus, wiring to the G Series units is minimal.

ISOLATED GENERATOR NEUTRAL

Generator neutral is isolated from battery ground making the XCAN-AC excellent for marine applications.

SIMPLE PLUG AND PLAY CONNECTORS

Wiring is simplified further with simple, water tight connectors for the XCAN-AC and G Series modules. Standard harnesses are available for a complete installation.

SUPPORTS MULTIPLE DISPLAYS

For applications where more than one display is required, additional G Series displays can be added. Again, harnesses can be provided for a simple, complete installation.

COMPLETE SOLUTION

A complete generator control solution and simple installation kit can be provided that combines the XCAN-AC module, G Series display and harnessing necessary for your application.



XCAN-AC Module

SPECIFICATIONS

GENERAL

OPERATING VOLTAGE.....	5.5 VDC to 36 VDC
CURRENT CONSUMPTION AT 12.6V.....	45mA
OPERATING TEMPERATURE.....	-40°C to +125°C
STORAGE TEMPERATURE.....	-40°C to +150°C
HUMIDITY.....	95% Non-condensing
REVERSE POLARITY PROTECTION.....	Yes
TRANSIENT VOLTAGE SUPPRESSION.....	Yes
LOAD DUMP PROTECTION.....	Yes
ENCLOSURE.....	Deutsch EEC Series, Sealed
CONNECTORS.....	Deutsch DTM06 Series, 12-Pin, Keyed, Sealed
APPROX. WEIGHT.....	10 oz.
APPROX. DIMENSIONS.....	1.25 x 5"W x 5.5"D

COMMUNICATIONS

COMMUNICATIONS PORT.....	CAN bus J1939
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AC SPECIFICATIONS

DIELECTRIC ISOLATION: 3000VDC 1 Minute, AC Neutral to DC Ground
4000VDC AD Neutral to CAN bus

AC VOLTAGE MEASURE: 3-Phase, True RMS 0-600 Volts, Wye or Delta Configurable
AC VOLTAGE INPUT IMPEDANCE: > 1mOhm
VOLTS RANGING: 0-150V, 150-300V, 300-600V Auto-Ranging
VOLTS ACCURACY: 0.2% of Full-Scale +/- 1 Count

AC CURRENT MEASURE: 3-Phase, True RMS 0-5 Amps Current Transformer Loop
CT BURDEN RESISTANCE: 50 mOhm

CURRENT RANGING: 0-2.5A, 2.5-5.0A Auto-Ranging
CURRENT ACCURACY: 1% of Full-Scale +/- 1 Count
FULL-SCALE CT RATIOS: 50, 75, 100, 200, 250, 300, 400, 500, 600, 800, 1000, 1200A (Jumper Selectable)

FREQUENCY MEASURE: 0-70Hz, Zero-Cross Detection
FREQUENCY ACCURACY: 0.1Hz, +/- 1 Count

ADDITIONAL PARAMETERS AVAILABLE

POWER FACTOR, LEAD/LAG, KWH (Instantaneous and Accumulated), KVA

CALIBRATION

DIGITAL (Factory Set)