CANtrak CONFIGURABLE INPUT MODULE

INTELLIGENT MONITORING SYSTEMS


CANtrak CONFIGURABLE INPUT MODULE (CCIM)

The CANtrak CCIM is a programmable sensor module that interfaces between various electronic sensors and a J1939 or NMEA 2000 Network.

The CCIM unit measures the various sensor inputs, digitises the measurements and then sends the digitized data in packets to a remote display unit – such as our CANtrak display. (The CANtrak with GEM software formats and displays the data, and offers a comprehensive fault warning and acknowledgement system).

The CCIM has 7 configurable analogue inputs that can be set to measure either voltage or resistive signals. There are three digital inputs (e.g., a tacho and two fuel flow inputs - sensors not supplied.)

There is a systems voltage input for measuring battery voltage. There is also a single digital 1Amp output driver – for use as an external alarm or fuel shut off feature.

- J1939 or NMEA 2000 CAN Protocols supported.
- CCIM supports NMEA 2000 Network Management.
- The CCIM is supplied fitted in a rugged automotive approved Deutsch enclosure/ connector system.
- A CCIM PC Config tool is available to allow the customer to set up module.
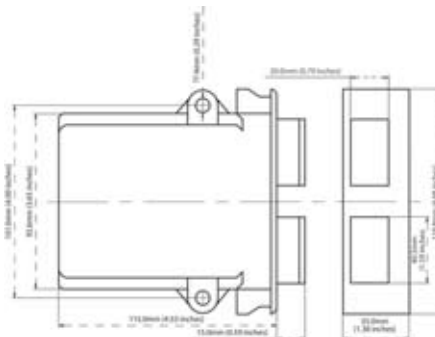
AT A GLANCE

- 7 Analogue Inputs
- 3 pulse (digital) inputs
- CANbus and RS232 Communications
- Single 1 Amp Output Driver
- Windows based PC Config tool - no programming
- Config Tutorial available
- Module ships with an Installation Manual

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INPUTS

Voltage Mode (Any of the seven inputs)	RANGE	RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE
	0 to 2.5V	10mV	+/-2%	100Hz	300K
	0 to 10V	10mV	+/-3%		

Resistance Mode (Any of the seven inputs)	RANGE	RESOLUTION	ACCURACY	BANDWIDTH	MEASURING CURRENT
	R ≤ 10Ω	1ohm	+/-10%	100Hz	
	10 < R ≤ 100Ω	2ohms	+/-5%	100Hz	4mA
	100 < R ≤ 500Ω	10ohms	+/-3%	100Hz	

Tachometer (Pulse input)	LEVEL Peak to Peak		FREQUENCY	RESOLUTION	ACCURACY	IMPEDANCE
	High	0.1 to 10V	10Hz to 10kHz	2 Hz	+/-3%	>20k
	Low	10 to 200V				

Switch Digital Inputs (Frequency Mode)	O/C PULL-UP CURRENT	FREQUENCY	RESOLUTION	ACCURACY
	10KΩ to +5V	2Hz to 2kHz	2 Hz	+/-1%

Switch Digital Inputs (Pulse Count)	10KΩ to +5V	500 Pulses/Sec	+/-1	1 count

Power Supply Monitor	RANGE	RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE
	8 to 32V	100mV	+/-3%	100Hz	>20k

COMMUNICATIONS AND OUTPUTS

CAN Interface (J1939 and NMEA 2000)	DATA RATE (BAUD)	ARRBITRATION	BYTES	REPETITION RATE
	125K,250K,500K & 500M	29 Bits (2.0B)	8	10mS to 10 sec/output

RS232	BAUD RATE	START BITS	DATA BITS	STOP BITS	PARITY
	57600	1	8	1	NONE

Switched Output	Open Collector 1A sink Maximum Current
POWER SUPPLY	10 TO 32VDC (Power Consumption 100mA)

ENVIRONMENTAL

Operating Temp.	-40 to + 85°C (-40 to 185°F)	Storage Temp.	-40 to +105°C (-40 to 221°F)
Shock & Vibration	Meets the requirements of BSEN 60945		

EMC (MEETS THE REQUIREMENTS OF EUROPEAN DIRECTIVE 89/336/EC, USING METHODS AND LIMITS DEFINED IN BSEN60945)

Transient Protection	RANGE	DURATION	RISE TIME	FALL TIME
	-34V TO 34V	1 minute	>10 µs	>10 µs

MECHANICAL

Dimensions	HEIGHT	WIDTH	DEPTH	WEIGHT	FIXING TO MOUNTING
	130mm (5.1")	120m (4.7")	37mm (1.5")	<1/2lb	6mm (1/4")

PART NUMBERS

CANtrak Configurable Input Module (CCIM)	931925
CCIM PC Config Tool	340006
CCIM Development Harnesses set	510627
CCIM Starter Kit	922002
*CCIM Connector Mating Half Kit	531007

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