

Electronic Systems

CANtrak CONFIGURABLE INPUT MODULE - CCIM



AT A GLANCE

- Converts analogue signals to CANbus data
- 7 analogue inputs
- 3 pulse (digital) inputs
- CANbus and RS232 communications
- Single 1 Amp output driver
- Windows based PC Configuration Tool (no programming)
- Configuration tutorial is available
- J1939 or NMEA 2000 CAN protocols are supported
- The CCIM is supplied fitted in a rugged automotive approved Deutsch enclosure with integrated connectors

CANtrak™ is the perfect platform to empower your electronics with flexibility and control.

The CCIM is a configurable module that interfaces between electronic sensors and a J1939 or NMEA network. The CCIM measures various sensor inputs, digitizes 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.

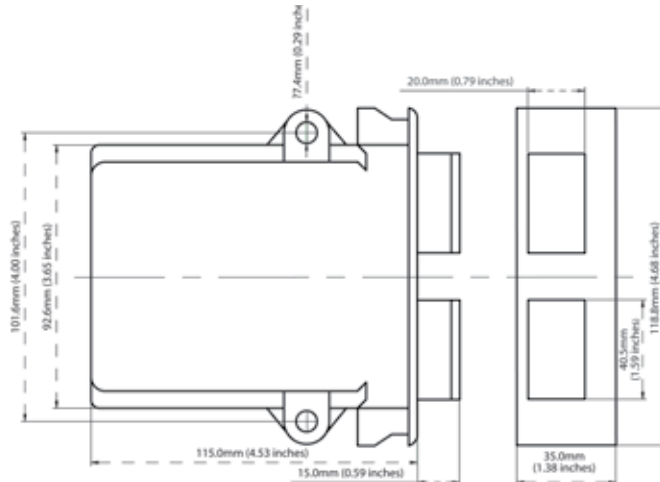
The CCIM has 7 configurable analogue inputs that can be set to measure either voltage or resistive signals. There are also 3 digital inputs suitable for interfacing parameters such as engine speed, wheel speed or fuel flow rate. There is a system voltage input for measuring battery voltage. There is also a single digital 1 Amp output driver – for use as an external alarm or a fuel shut off feature.

There are several accessories available for the CCIM including: a PC Configuration Tool, CCIM Harnesses and a comprehensive Starter Kit.



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MOUNTING AND DIMENSIONAL INFORMATION



SPECIFICATIONS & TECHNICAL DATA

INPUTS					
Voltage Mode	RANGE	RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE
	0 to 2.5V	10mV	+/-2%	100Hz	300K Ω
	0 to 10V	10mV	+/-3%		
Resistance Mode	RANGE	RESOLUTION	ACCURACY	BANDWIDTH	MEASURING CURRENT
	$R \leq 10\Omega$	1 Ω	+/-10%	100Hz	4mA
	$10 < R \leq 100\Omega$	2 Ω	+/-5%	100Hz	
$100 < R \leq 500\Omega$	10 Ω	+/-3%	100Hz		
Tachometer (Sinus Pulse Input)	LEVEL Peak to Peak	FREQUENCY	RESOLUTION	ACCURACY	IMPEDANCE
	High	0.1 to 10V	10Hz to 10kHz	2 Hz	+/-3%
	Low				
Digital Inputs		0/c PULL-UP CURRENT	FREQUENCY	RESOLUTION	ACCURACY
	Frequency Mode Pulse Count	10K Ω to +5V	2 Hz to 2kHz	2 Hz	$\pm 1\%$
		10K Ω to +5V	500 Pulses/Sec	± 1	
Power Supply Monitor	RANGE	RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE
	8 to 32V	100mV	+/-3%	100Hz	>20k Ω
COMMUNICATIONS AND OUTPUTS					
CAN Interface	DATA RATE (BAUD)	ARBRITRATION	BYTES	REPETITION RATE	
	125K,250K,500K & 1M	29 Bits (2.0B)	8	10ms to 10 s/output	
RS232	BAUD RATE	START BITS	DATA BITS	STOP BITS	PARITY
	57600	1	8	1	NONE
Switched Output	Open Collector 1A sink Maximum Current				
ELECTRICAL					
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 μ s	>10 μ s	
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		

MODULR OPTIONS:

- Power supply
10 – 32Vdc
- Power Consumption
100mA
- Operating Temperature
-40 to + 85°C
(-40 to 185°F)
- Storage Temperature
-40 to +105°C
(-40 to 221°F)
- Weight
<225g (1/2lb)