

CANTRAK CONFIGURABLE INPUT MODULE (CCIM)

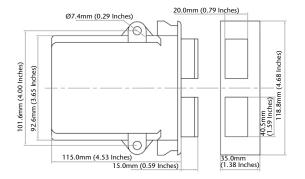
TECHNICAL DATA

This CCIM is a programmable sensor module that interfaces between various electronic sensors and a J1939 or NMEA 2000 Networks.

KEY FEATURES

- The CCIM unit measures the various sensor inputs, digitises the measurements and then sends the digitised 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 (For example 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 say 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.



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DATA SHEET NO USA-C1

AT A GLANCE

FEATURES

- 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

PAGE 1 OF 2





Voltage Mode	INPUTS							
Inputs O to 10V	Voltage Mode	RANGE		RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE	
Resistance Mode RANGE RESOLUTION ACCURACY RANDWIDTH MEASURING CURRENT		0 to 2.5V		10mV	+/-2%	100Hz	300K	
Any of the seven inputs R ≤ 10Ω 10 Am 4/-1096 100Hz 100Hz 10 Am 4/-596 100Hz 4 Am 100Hz 100 Am 4/-596 100Hz 4 Am 100Hz 4 Am 100Hz 100 Am 4/-596 100Hz 4 Am 4		0 to 10V		10mV	+/-3%			
Inputs 10 < R ≤ 100Ω 20 hms +/-596 100Hz 4mA	Resistance Mode	RANGE		RESOLUTION	ACCURACY	BANDWIDTH	MEASURING CURRENT	
10 c R ≤ 1000		$R \le 10\Omega$		1ohm	+/-10%	100Hz		
Tachometer (Pulse input) LEVEL Peak to Peak FREQUENCY RESOLUTION ACCURACY IMPEDANCE		$10 < R \le 100\Omega$		2ohms	+/-5%	100Hz	4mA	
High		$100 < R \le 500\Omega$		10ohms	+/-3%	100Hz		
Note		LEVEL Peak to Peak		FREQUENCY	RESOLUTION	ACCURACY	IMPEDANCE	
Switch Digital Inputs (Frequency Mode)		High	0.1 to 10V	10Hz to 10kHz	2 Hz	+/-3%	>20k	
Inputs (Frequency Mode) CURRENT 10KΩ to +5V 2Hz to 2kHz 2 Hz +/-1%		Low						
Mode Mode Mo	Inputs (Frequency	O/C PULL-UP		FREQUENCY	RESOLUTION			
South Digital Puts Power Supply Monitor RANGE RESOLUTION ACCURACY BANDWIDTH INPUT IMPEDANCE Monitor REPETITION RATE Monitor REPETITION RATE Monitor REPETITION RATE Monitor Maritary Monitor Maritary Monitor Monito		CURRENT						
Power Supply Monitor		10KΩ to +5V		2Hz to 2kHz	2 Hz	+/-1%		
Power Supply Monitor RANGE RESOLUTION ACCURACY BANDWIDTH INPUT IMPEDANCE	Inputs	10KΩ to +5V		500 Pulses/Sec	+/-1	1 count		
Sto 32V 100mV +/-3% 100Hz >20k	Power Supply	RANGE		RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE	
CAN Interface (J1939 and NMEA 2000) DATA RATE (BAUD) ARBRITRATION BYTES REPETITION RATE (J1939 and NMEA 2000) 125K, 250K, 500K & 500M 29 Bits (2.0B) 8 10mS to 10 sec/output RS232 BAUD RATE 57600 1 8 1 NONE Switched Output Open Collector 1A sink Maximum Current FOWER 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) Tansient Protection RANGE PAUL NICAL DURATION RISE TIME PAUL PAUL PAUL PAUL PAUL PAUL PAUL PAUL		8 to 32V		100mV	+/-3%	100Hz	>20k	
125K,250K,500K & 500M 29 Bits (2.0B) 8 10mS to 10 sec/output 500M 125K,250K,500K & 500M 1 8 1 10mS to 10 sec/output 57600 1	COMMUNICA	TIONS A	ND OUT	PUTS				
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Switched Output Open Collector 1A sink Maximum Current POWER SUPPLY 10 TO 32VDC (Power Consumption 100mA) ENVIRONMENTAL Operating Temp.	RS232	BAUD RATE		START BITS	DATA BITS	STOP BITS	PARITY	
POWER SUPPLY ENVIRONMENTAL Operating Temp.		57600		1	8	1	NONE	
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 FALL TIME -34V TO 34V 1 minute >10 μs >10 μs MECHANICAL Dimensions HEIGHT WIDTH DEPTH WEIGHT FIXING TO MOUNTING 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	Switched Output	Open Collector 1A sink Maximum Curren			nt	1		
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CCIM Starter Kit 922002	CCIM PC Config Tool				340006			
	CCIM Development Harnesses set				510627	510627		
*CCIM Connector Mating Half Kit 531007	CCIM Starter Kit				922002	922002		
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ISSUE DATE April-09
DATA SHEET NO USA-C1

PAGE 2 OF 2



