

Electronic Systems

KAntrak™ CONFIGURABLE INPUT MODULE - KCIM



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 KCIM is supplied fitted in a rugged automotive approved Deutsch enclosure with integrated connectors

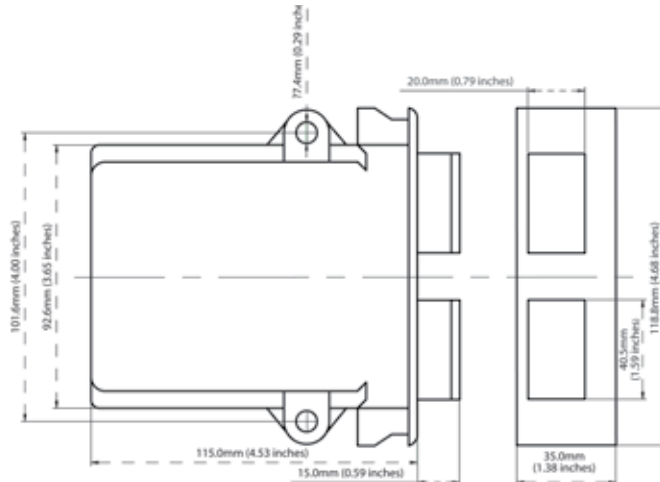
KAntrak™ is the perfect platform to empower your electronics with flexibility and control.

The KCIM is a configurable module that interfaces between electronic sensors and a J1939 or NMEA network. The KCIM measures various sensor inputs, digitizes the measurements and then sends the digitized data in packets to a remote display unit – such as our KAntrak™ display. The KAntrak™ with GEM software formats and displays the data and offers a comprehensive fault warning and acknowledgement system.

The KCIM 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 KCIM including: a PC Configuration Tool, KCIM Harnesses and a comprehensive Starter Kit.

MOUNTING AND DIMENSIONAL INFORMATION



SPECIFICATIONS & TECHNICAL DATA

INPUTS						
Voltage Mode	RANGE		RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE
	0 to 2.5V		10mV	+/-2%	100Hz	300KΩ
0 to 10V			10mV	+/-3%		
Resistance Mode	RANGE		RESOLUTION	ACCURACY	BANDWIDTH	MEASURING CURRENT
	R ≤ 10Ω		1Ω	+/-10%	100Hz	4mA
	10 < R ≤ 100Ω		2Ω	+/-5%	100Hz	
100 < R ≤ 500Ω		10Ω	+/-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%	>20k
	Low	10 to 200V				
Digital Inputs			0/c PULL-UP CURRENT	FREQUENCY	RESOLUTION	ACCURACY
	Frequency Mode Pulse Count		10KΩ to +5V 10KΩ to +5V	2 Hz to 2kHz 500 Pulses/Sec	2 Hz ±1	±1%
Power Supply Monitor	RANGE		RESOLUTION	ACCURACY	BANDWIDTH	INPUT IMPEDANCE
	8 to 32V		100mV	+/-3%	100Hz	>20kΩ
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 μs	>10 μs	
PART NUMBERS						
KAntrak™ Configurable Input Module (KCIM)			931925			
KCIM PC Config Tool			340006			
KCIM Development Harnesses set			510627			
KCIM Starter Kit			922002			
KCIM 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)

