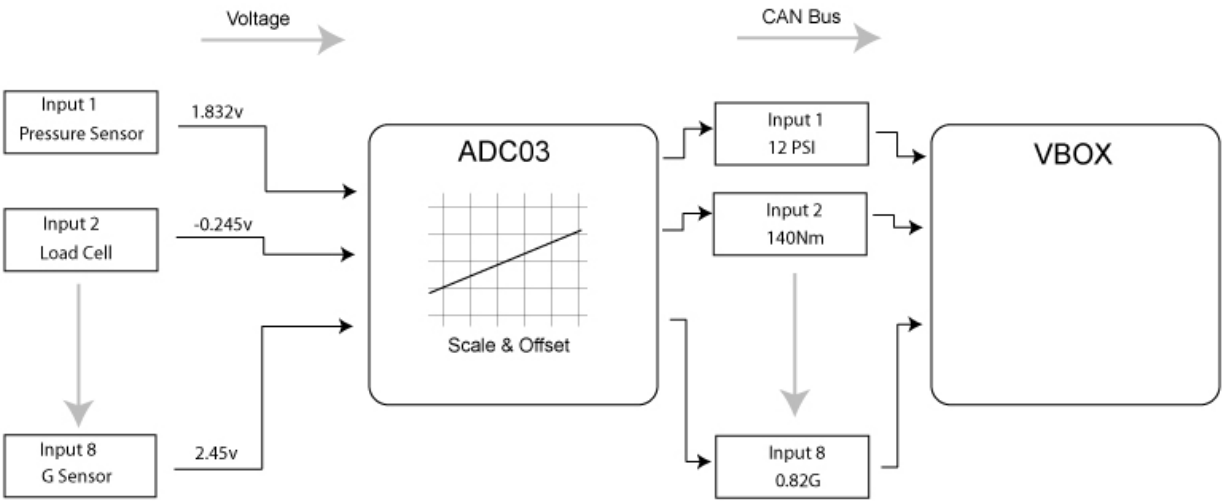
Analogue Input Module
16 bit (RLVBADC03)

Racelogic's analogue input module (RLVBADC03) is an 8-channel analogue voltage input module designed for use with the Racelogic VBOX. Each channel is electrically isolated and provides bipolar voltage measurement up to ±50 V with a DC accuracy of ±2 mV*.

Isolated, regulated 5 V and 12 V supplies are available on the main 25-way sub-d connector in addition to a supply voltage connection. Configuration software supplied with the ADC03 allows scale and offset of the voltage reading for conversion into real data.



Features

- Timer controlled transmission or polled response
- Wide voltage input range ±50 V
- 16 bit resolution
- ±2 mV DC accuracy*
- Synchronous sampling of all channels
- Bi-polar voltage input
- Internal scale + offset for conversion to real data

*Calibrated at 23 °C.

VBOX AUTOMOTIVE
Unit 10, Swan Business Centre, Osier Way, Buckingham, Bucks MK18 1TB, England
Tel: +44 (0)1280 823 803 Fax: +44 (0)1280 823 595 Email: vbox@racelogic.co.uk
www.vboxautomotive.co.uk

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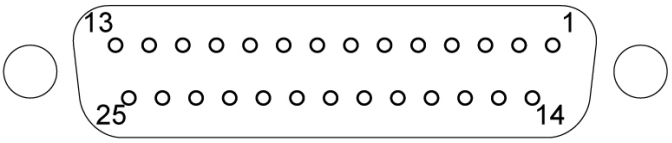
Specifications

Number of Channels	8
DC Accuracy	±2 mV (calibrated at 23°C)
Input range	±50 V
Input impedance	>100 KΩ
Storage temperature	-30°C to 80°C
Operating temperature	-20°C to 70°C
Output voltage supply on SUB-D Connector	12 V isolated 80 mA max current draw 5 V isolated 200 mA max current draw
Supply Voltage	12 V DC
Isolated voltage supply accuracy	+/-5%
Current	650 mA

Signal Connections



25 way socket connections

Pin	Function	Pin	Function
1	A/D Channel 1 +	14	+Vbatt - .**Must use 100 mA fuse!**
2	A/D Channel 1 -	15	GND
3	A/D Channel 2 +	16	Isolated 5 Volt supply (+ve)
4	A/D Channel 2 -	17	Isolated 5 Volt supply (-ve)
5	A/D Channel 3 +	18	Isolated 12 Volt supply (+ve)
6	A/D Channel 3 -	19	Isolated 12 Volt supply (-ve)
7	A/D Channel 4 +	20	GND
8	A/D Channel 4 -	21	GND
9	A/D Channel 5 +	22	GND
10	A/D Channel 5 -	23	A/D Channel 8 -
11	A/D Channel 6 +	24	A/D Channel 8 +
12	A/D Channel 6 -	25	A/D Channel 7 -
13	A/D Channel 7 +		