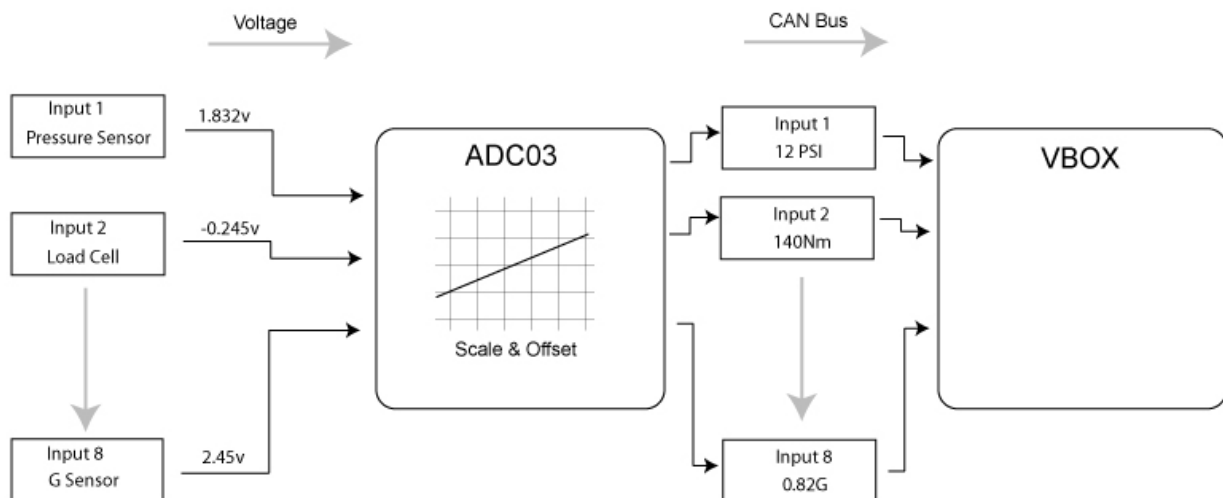


# Analogue Input Module 16 bit (RLVBADC03)



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  $\pm 50$  V with a DC accuracy of  $\pm 2$  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  $\pm 50$  V
- 16 bit resolution
- $\pm 2$  mV DC accuracy\*
- Synchronous sampling of all channels
- Bi-polar voltage input
- Internal scale + offset for conversion to real data

\*Calibrated at 23 °C.

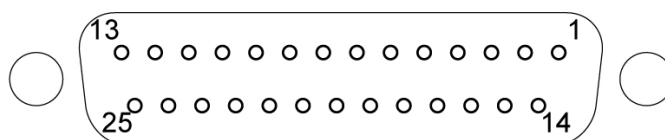
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## Specifications

<b>Number of Channels</b>	8
<b>DC Accuracy</b>	±2 mV (calibrated at 23°C)
<b>Input voltage</b>	0-5 V
<b>Input range</b>	±50 V
<b>Input impedance</b>	>100 KΩ
<b>Output voltage supply</b>	12 V isolated 80 mA, 5 V isolated 100 mA
<b>Supply Voltage</b>	12 V DC
<b>Current</b>	530 mA

## Signal Connections



25 way socket connections

Pin	Function	Pin	Function
1	A/D Channel 1 +	14	+Vbatt
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 +		