IM-2

Overview

The IM-2 module measures and converts the outputs from isolated hall-effect and other current transducer to the "S" communications bus protocol. It is designed for up to two transducers per module, nominally one charge / discharge transducer and one float current transducer. Output power supplies are available for connected transducers.

The individual IM-2 modules are then linked to each other and a CELLQ controller using the "I" Bus.

The "I" Bus is a second iteration of the "S" Bus within the CELLQ controller dedicated to the collection of data from the IM-2 modules. Using a separate bus allows the IM-2 modules to be interrogated at a faster rate to enable the detection of a discharge condition.

Specifications

Electrical Data

Supply voltage	9-36V
Transducer supply voltage	+/- 15V
Transducer supply current	150mA
Current, @ 12V	21 mA

Performance Data

Voltage measurement range

Float current	0 to +4V
Load current	0 to +10V
Voltage accuracy @ 20°C	± 0.25 %
A/D conversion (max)	12 bit
Communications (kbaud)	9,600/19,200

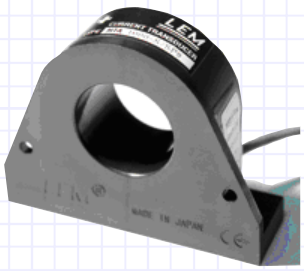
General Data

Operating temperature	- 5 / + 75 °C
Storage temperature	- 25 / + 85 °C
Weight	2.2 oz
Dimensions (ins)	2.52 x 1.97 x .98

Approvals

Safety	UL61010B-1

Typical Current Transducer



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CELLQ Remote Battery Management