



FEATURES

- Energy Management System ready
- 4 Channels per interface
- Converts 0-24 Vac into 0-3 Vdc or 0-5 Vdc – selectable.
- Allows DDC controller to measure ac voltages
- Converts “Wet Contacts” 24 Vac or DC on/off input into DC signal
- Easy Installation with quick connect terminals
- Measures AC Impedance for Soil Moisture Level measurements
- Measures High Alternating Current voltages up to 480 Vac

SPECIFICATIONS

Model	EXL-05010
Voltage Input	24 Vac +10% 24 Vdc +50%
Voltage Output	0-5 Vdc or 0-3 Vdc
Input Impedance	5 kΩ
Output Limited	5.1 Vdc or 3.2 Vdc
Input Channels	4
Output Channels	4
Output Selection	4
Mounting	Track or Din Rail
Accuracy	±2% with Calibration

PART NUMBER:

EXL-05010 [Options]
Options
TR, MS, DR

Voltage Measurement Interface

Description:

The Voltage Measurement transducer board allows a standard Energy Management System (EMS) Direct Digital Control (DDC) controller to measure AC voltages from 0-24 Vac directly or 0-480 Vac with a transformer. These measurements are useful for detecting power conditions, converting “wet contacts” (found in some roof top unit equipment) to an on/off input voltage, measuring the AC impedance of a capacitively coupled resistance, measuring the moisture level of soil for sprinkler systems and other uses.

This board will convert a 0-24 +10% Vac or 0-24 +50% Vdc input voltage into a 0-5 Vdc or 0-3 Vdc signal (jumper selectable) that is limited to a maximum of 5.1 Vdc or 3.2 Vdc by an internal zener diode.

There are 4 parallel channels that each measure a separate voltage and output an independent DC voltage that is set to either 0-5 Vdc or 0-3 Vdc.

Options:

- TR Voltage Measurement Transformer – Specify Voltage
- MS Moisture Sensor – Soil Moisture Measurement
- DR Din Rail Mounting

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