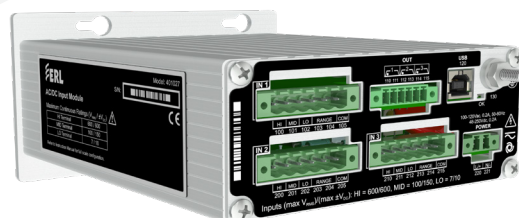


AC/DC Module

401027



Product Overview

The AC/DC Input Module provides DC-coupled isolation and scaling for three independent dc or ac voltage or current channels. AC/DC Input Module channels have a dc to 2 kHz bandwidth, but the bandwidth may be limited by the recorder's input filters, depending on the sample rate. Each channel is independently configurable (voltage vs current, AC vs DC, full-scale, etc.) using the AC/DC Input Module Configurator Tool. Output from the module is scaled to connect directly to the TESLA's analog input terminals. Due to impedance matching requirements, module channels cannot be connected to more than one TESLA input channel.

Note: Shielded wire (e.g. Belden 9728, 9730, or similar) should be used for connection from the AC/DC Input Module to the recorder's inputs. The AC/DC Input Module power and safety ground cable should be bundled with the above signal cable and routed to the recorder's power inputs.

Ordering Options

Modules are available in the following ordering options:

- DIN mount
- Surface mount
- Rack mount

Specs	
Number of Channels	3
Input Voltage	
Range	0.1 V to 600 V _{DC} full scale 0.1 V to 600 V _{RMS} full scale
Current (AC or DC shunt outputs)	
Direct input from transducers	Dependent on shunt
Input Impedance	Dependent on configuration
Power Supply	48 V _{DC} to 250 V _{DC} or 100 V _{AC} to 120 V _{AC} , burden 10 VA
Isolation	
Input Channel to Chassis GND	3250 V _{RMS} , 1 minute
Input Channel to Input Channel	3250 V _{RMS} , 1 minute
Input Channel to Output Channel to TESLA	4350 V _{RMS} , 1 minute
Dimensions: L x W x H	DIN: 173.5 x 137.2 x 80.8 mm Surface: 173.5 x 137.2 x 81.3 mm Rack: 173.5 x 137.2 x 80.8 mm

DIN Mount AC/DC Module

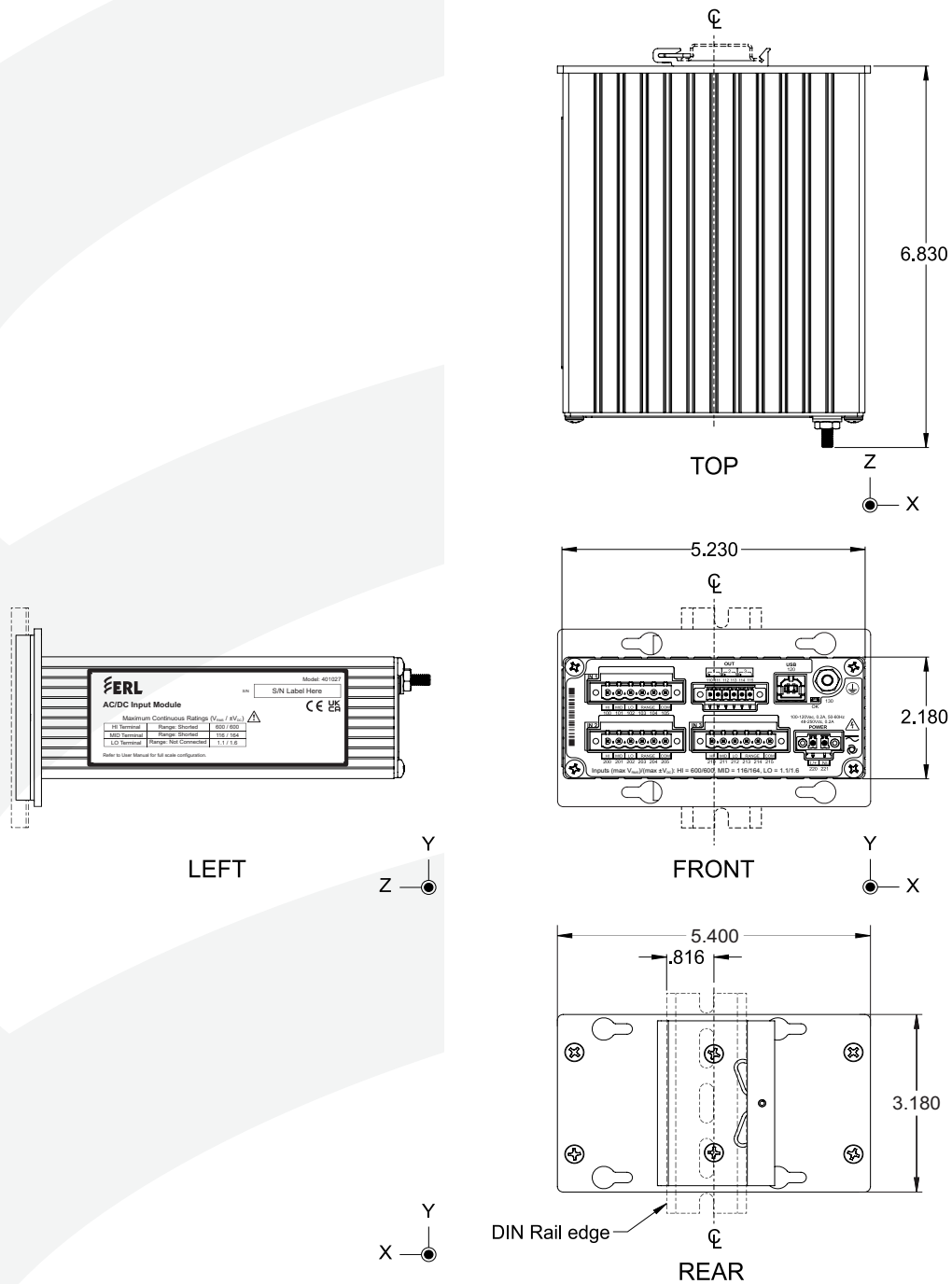


Figure 1: DIN mount AC/DC Input Module
(dimensions are in inches)

Surface Mount AC/DC Module

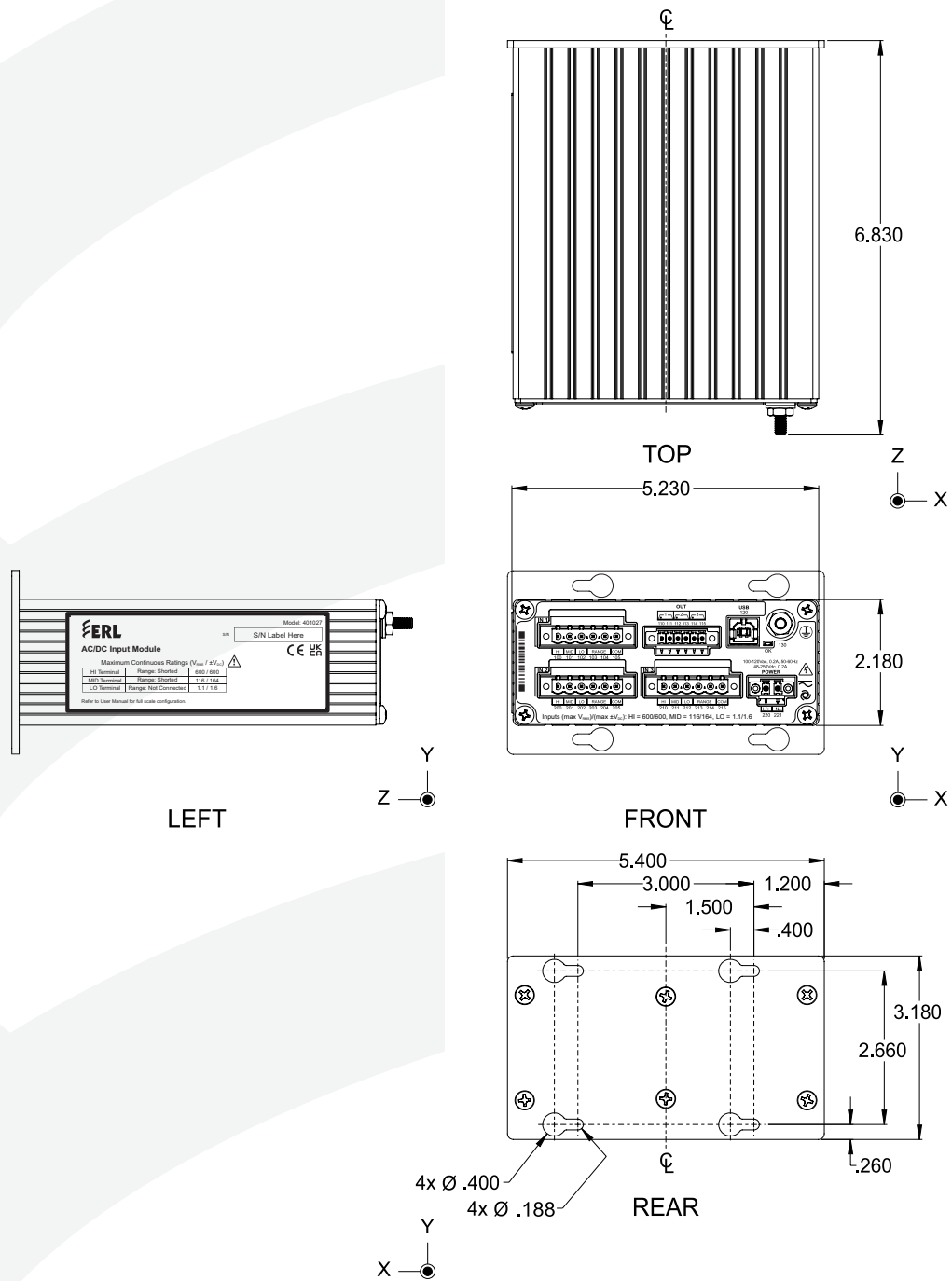


Figure 2: Surface Mount AC/DC Input Module
(dimensions are in inches)

Rack Mount AC/DC Module

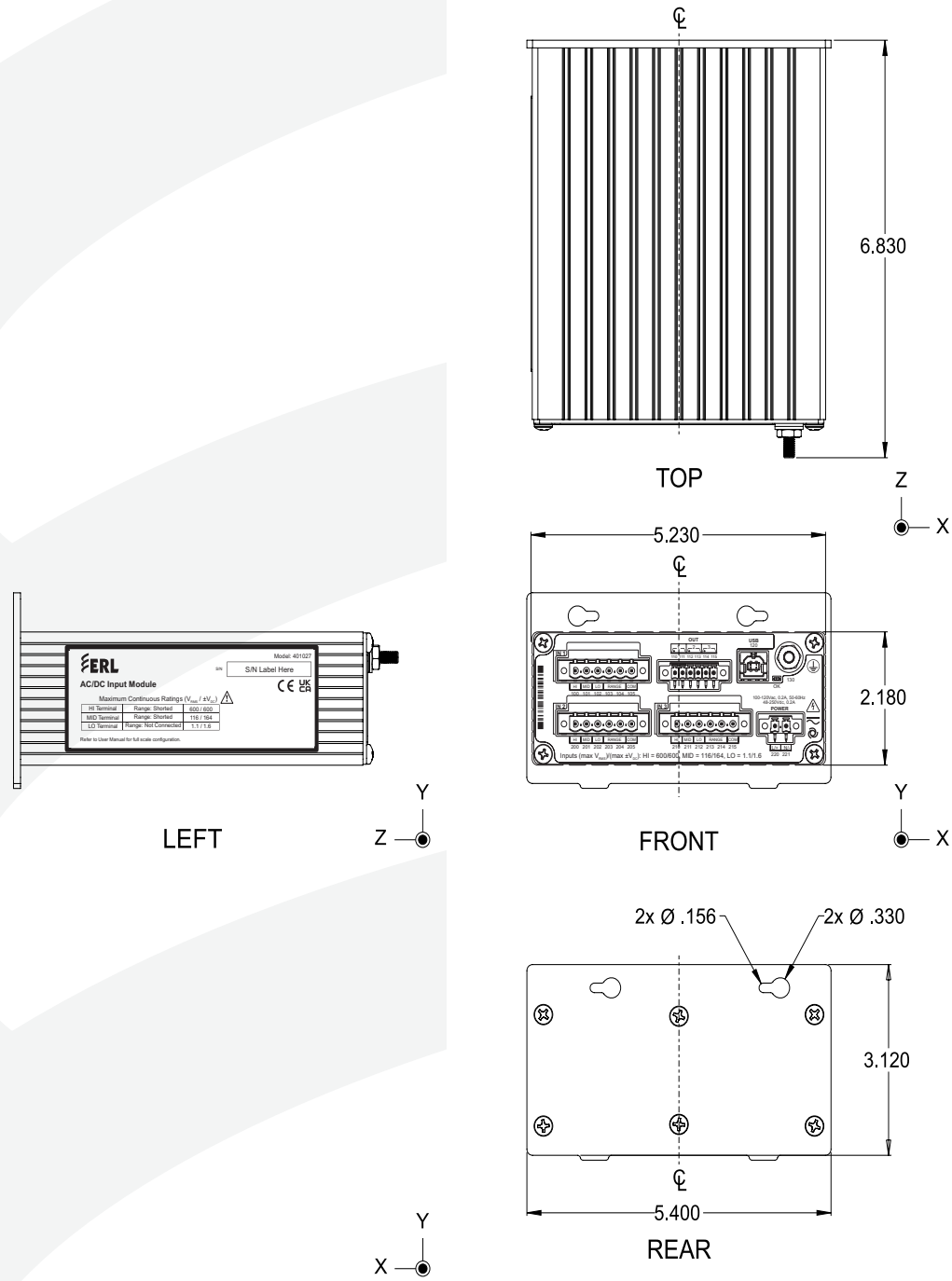


Figure 3: Rack Mount AC/DC Module
(dimensions are in inches)

Rack Mount Plate

The rack mount plate (Figure 4), allows up to 3 modules to be installed in 2U of a 19" rack. The rack mount style modules are ordered separately from the rack mount plate, and the modules must be installed into the plate by the customer. Figure 4 shows how to install the modules into the plate. Use 4 #10 or M6 screws to mount the rack mount plate into the 19-inch rack.

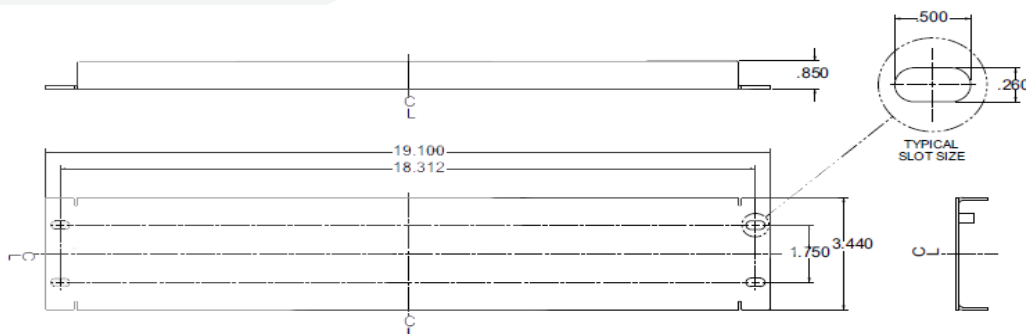


Figure 4: 2U Module Rack Mount Plate
(dimensions are in inches)

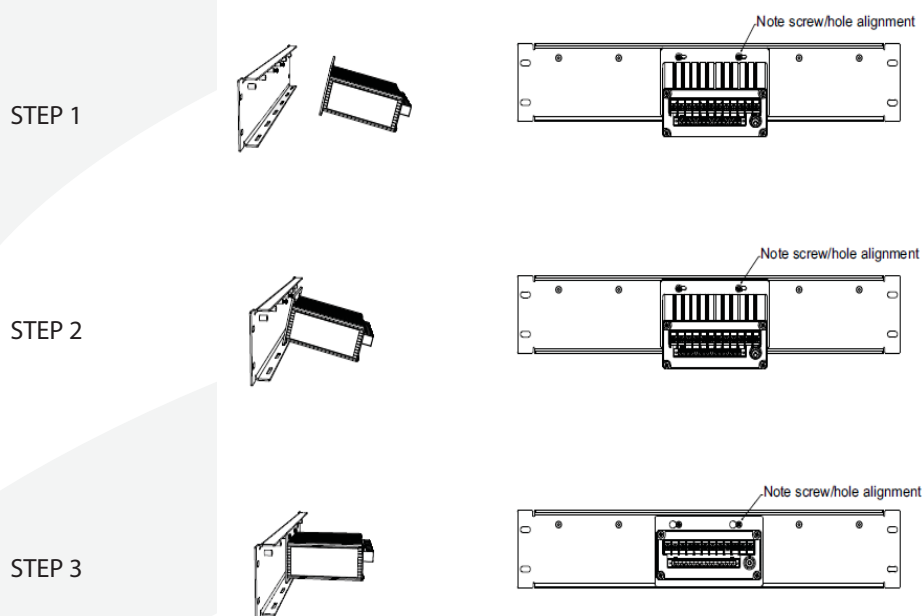


Figure 5: Installing Modules into Rack Mount Plate
(dimensions are in inches)

ERLPhase Power Technologies

Tel: +1 204-477-0591

Toll Free: 1-833-502-2160 (US & Canada)

Email: support@erlphase.com

The specifications and product information contained in this document are subject to change without notice.
In case of inconsistencies between documents, the version at www.erlphase.com will be considered correct. (D05150R02)

www.erlphase.com

