

Product Datasheet 9

Features

- General purpose access to all E series DAQ card signals via front panel mounted, ruggedised, quick release, multipin connectors
- DIO channels can be used to switch upto 8 onboard relay contacts
- Two rear panel IEC sockets can also be switched under DIO/relay control (IEC version only)
- Requires an external 12V/1A DC PSU
- Can be used with a range of low cost proprietary temperature & pressure sensors for general purpose instrumentation measurements
- Plugs directly into E series range of DAQ cards via rear panel mounted 68- pin (male) connector
- All analogue input channels are configurable (via internal links) for a wide range of pull-up/ pull-down and divider configurations
- Default signal conditioning settings for use with a range of temperature & pressure sensors (via BNC connectors)
- Opto-isolated input drive voltage 0/5V to 75V DC
- 2K2 opto-isolator input resistor per channel.
- Input opto-isolation 2500V rms (minimum)
- Digital channels can be connected as inputs or outputs and are provided with link selectable opto-isolation and buffering in either direction. Front panel LED's indicate DIO channel status
- Spare IC positions provided for designers additional components



Description

A versatile, low cost, general purpose Test, development or Instrumentation unit for direct connection to the National Instruments E series (68-pin) range of Multifunction cards. Digital inputs can be connected via the N/O connection and onboard opto-isolation, directly to the 68 pin connector. For engineers and students who are involved in

developing test or instrumentation systems, and who want to use a ready-made hardware interface solution. Designed to be easy-to-use, and quickly configured via onboard jumper links. The E68Mx is mounted in a strong, durable ABS enclosure with an easily detachable lid giving access to onboard links & components etc.

Specifications

Connector Interface

Standard 68 way (male) connector, will connect directly to a suitable 68 way DAQ cable. Pin compatible with all NI/DAQ 'E' series, 68 pin DAQ cards.

External Power supply

12V/1 amp DC

Mains input voltage (IEC)

115V/240V AC 50 Hz

Operating temp range

0-70°C

Relay contact rating

10 amp (2.5 amp PCB tracking). 5 amp IEC sockets.

Dimensions

Dimensions approx 260mm (D) 290mm (W) 103mm (H) (exc feet)

Order codes

E68Mx2Unit/E68Mx2IEC

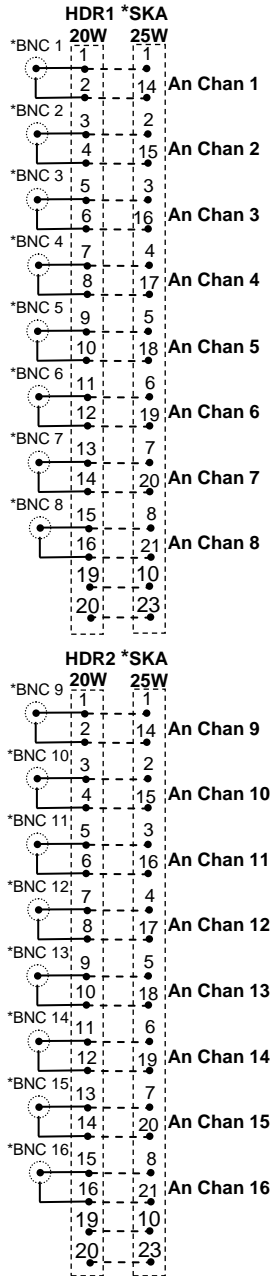
General purpose test & instrumentation unit, with access to all E series digital and analogue DAQ signals, and DIO switched relay contacts including two relay switched rear panel IEC sockets (IEC version only).

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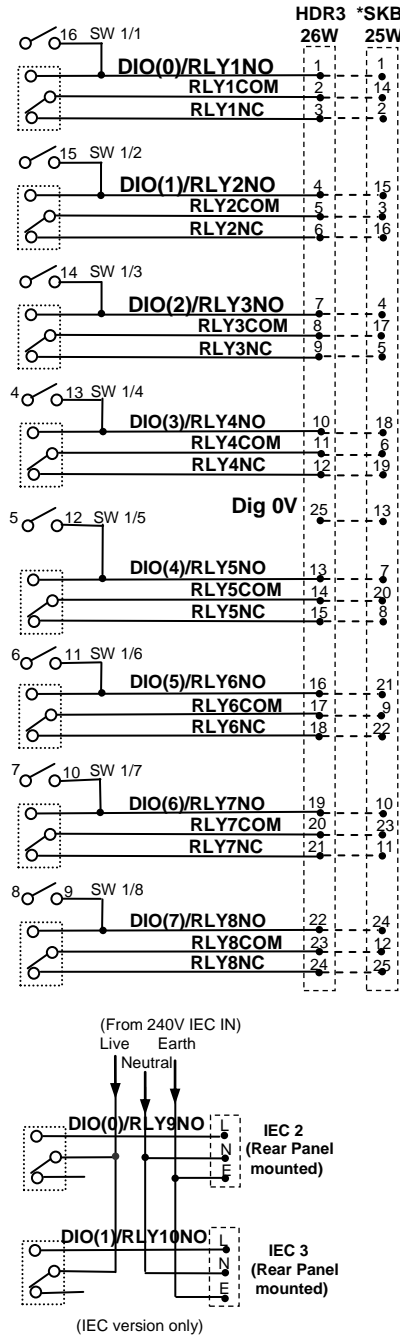
Connection details

External connections to the unit are shown below:

Analogue channels



DIO/Relay channels



Other analogue/signal channels

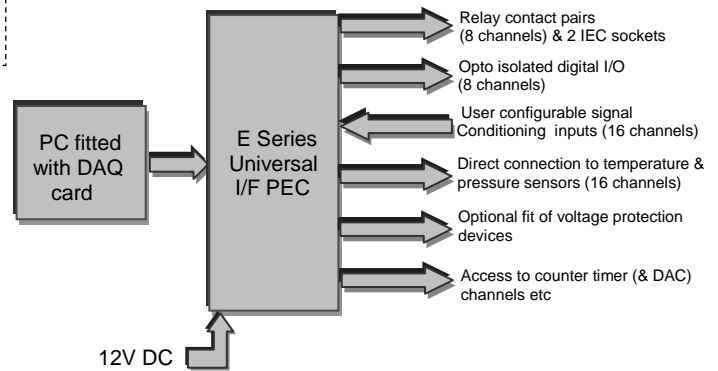
Remaining channels are not connected. Spare contacts on front panel connectors allow designers to connect additional signals as required.

Rear panel:



(IEC version only)

Functional diagram:



Default channel configuration:

