



- Ethernet and RS232 communications
- 4 digital inputs and 2 relay outputs.
- Swipe / RFID reader port
- Panel-mount, wall-mount, and desk-top versions
- Configurable alpha-numeric keyboard
- No cost front panel graphic customisation
- 4 line x 20 character backlit display

These compact keypad terminals can be panel mounted, workbench mounted, wall mounted, or free-standing - and there is a weatherproof version for outdoor use. All have a backlit display and sealed, configurable, alphanumeric keyboard. They are engineered for monitoring, data collection, access control, and general operator interfacing applications in the industrial and commercial environment.

The Ethernet port can be configured as a client or server with a fixed IP address. All settings are configurable locally using the keyboard and display, and via Ethernet.

The RS232 port can be used for the connection of barcode scanner, printer etc. and supports file transfer.

There are 2 relay outputs and 4 opto-isolated digital inputs. Each input counts at up to 250 cycles/second and measures cycle time. The status of each input, count value, and cycle time value can be requested by the host system or sent automatically. The counters can be reset individually.

All keypad terminals can be supplied with special keyboard overlays at no extra cost (when specified at the time of ordering).



Transform the operator interface with

- New key legends
- Custom logo
- Colour preferences

Our system includes Digital Print Technology which outputs the full-colour graphic design directly to the polyester keyboard membrane using permanent non-fade inks and reverse printing for durability and scratch resistance.



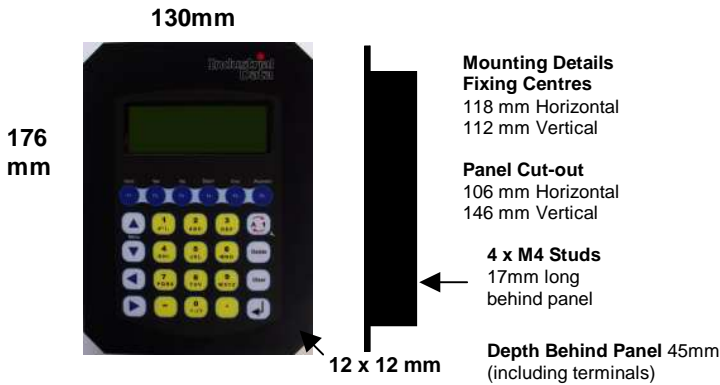
Convenient pluggable screw terminal connections for plant terminations.

Standard RS232 and Ethernet sockets.

Power can be connected using either screw terminals or standard 2.1mm power socket

## Dimensions

### Panel Mount (Model EELX)



### WMX (Wall Mount Enclosure)



The WMX wall mount enclosure comprises 2 sections with an "O" ring seal to preserve IP65 ingress protection. The EELX fits to the front part permitting the rear section to be installed separately. The material is ABS.

**Dimensions** 136w x 182 x 82 mm

### EELV (Versatile Housing) Mounting Options



**Dimensions:** 110w x 165 x 75 (rear), 25 (front) mm.

## Specifications

**Power Supply**  
**Display**  
**Keyboard**  
**Communications**

Requires unregulated 10 to 30v dc, 3 watts max  
 4 lines x 20 characters with backlighting, character height 4.5mm  
 26 key tactile sealed. Customisable.

**Ethernet Port: (RJ45)**  
 TCP/IP. Selectable Server or Client mode. Fixed IP address, gateway IP address.  
 Programmable keep-alive. 100 baseT communications.

**RS232 Port : (DB9 Male)**  
 300-38400 baud. 8,N,1 or 7,E,2, RTS/CTS or XON/XOFF handshaking. +5v at up to 350mA is connected to pin 9 to provide power for an external device.

**Swipe Reader Port : (3 way Pluggable Screw Terminals)**  
 9600 Baud 8, N, 1 for connection to integrated MagCard and BarCode swipe readers or RFID reader. Connections provided - 0v, Signal, +5v. The +5v connection can supply up to 350mA to power the reader - WARNING this is the same connection as pin 9 of the RS232 port and the maximum combine current capability is 350mA.

**I/O Connections**

**IO Port : (10 way Pluggable screw terminals)**  
**4 Opto-isolated inputs.** 6v to 30vdc = ON. All inputs are also configured as counters (there are separate commands to read status and counter values). (Operating frequency 0 to 250 Hz, counts to 99999999 and roll-over, cycle time measured in mS to 99999.999s). Reset on power loss. Debounce settable from 1mS to 1000 mS. Count on rising or falling edge.

**2 Relay Outputs** Normally open contacts rated 2A (Max 50v).

**Temperature**  
**Humidity**  
**V Housing Version Protection**  
**Panel-Mount Version Protection**  
**Wall Mount Protection**  
**Certification**

-10 to + 60 deg C (-20 to 80 deg C Storage)  
 20% to 95% RH non-condensing  
 Front IP54, rear IP20  
 Front IP65\* (Behind panel protection is IP20)  
 IP65\*  
 CE

\*Outdoor use requires high-performance keyboard overlay and sealing gasket



**Industrial Data Products Limited**  
 The Studio, Oldbury Business Centre, Cwmbran,  
 Gwent UK. NP44 3JU.

## Order Codes

<b>EELX</b>	Panel mount version.
<b>WMX</b>	Wall Mount Enclosure for EELX versions.
<b>EELV</b>	Versatile housing version.
<b>BJL</b>	Long ball-joint mounting bracket for EELV models
<b>BJS</b>	Short ball-joint mounting bracket for EELV models

Delmation Products BV  
 www.delmation.nl  
 Tel: +31 (0)79 342 2041