Simple Keypad Terminals for Operator HMI

ELX

ELV

- **No cost front panel graphic customisation**

- **Configurable keyboard**

- **Panel-mount, wall-mount, and desk-top versions**

- **RS232 or RS422 communications**

- **Optional 4 digital inputs (with integral counting) and 2 relay outputs.**

These compact keypad terminals, with panel mount, desk-top, and wall-mount configurations, have a backlit display and sealed, configurable keyboard. They are engineered for monitoring, data collection and general operator interfacing applications in the industrial environment.

The IO option adds 2 relay outputs and 4 opto-isolated digital inputs. Each input can also count at up to 250 cycles/second. The status of each input, or counter, can be requested by the host system, and counters can be reset individually.

Quick Start Kits include manual, cable, power supply, keyboard configuration tool, terminal emulators and documentation.

RS422 communications use robust opto-isolated signalling for operation in difficult environments.

All keypad terminals are available with special keyboard overlays at no extra cost (when specified at the time of manufacture).
Graphic templates can be downloaded from our website to be configured directly by the customer (using CorelDraw^{TM}) in full colour.
By adding a logo and creating new key legends the look of the product is totally transformed. The completed design is emailed to our manufacturing department for incorporation into the product. After approval the design is given a unique number for identification when re-ordering.
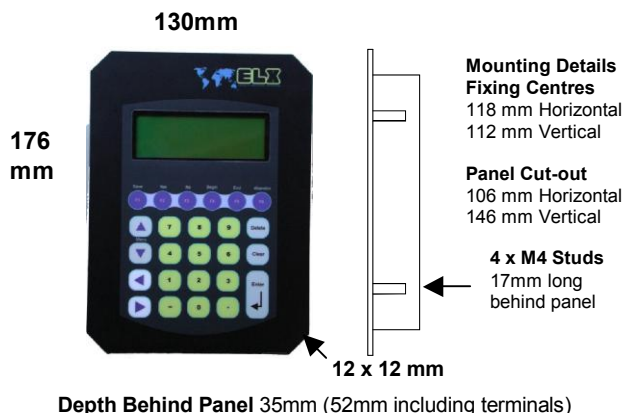
Digital print technology outputs directly from the graphic design to polyester keyboard membrane using non-fade permanent inks and reverse printing for scratch resistance and durability

Industrial Data

Dimensions

Panel Mount (Model ELX)

130mm

176 mm

Mounting Details
Fixing Centres
118 mm Horizontal
112 mm Vertical

Panel Cut-out
106 mm Horizontal
146 mm Vertical

4 x M4 Studs
17mm long
behind panel

12 x 12 mm

Depth Behind Panel 35mm (52mm including terminals)

ELV Mounting Options

With long ball-joint bracket

With short ball-joint bracket

Desktop

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

ELX installed in the WMX wall-mount enclosure

WMX (Wall Mount Enclosure)

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

Dimensions 136w x 182 x 82 mm

Specifications

Power Supply	Unregulated 12 to 30v dc, 3 watts max or regulated 5vdc +/- 5%.
Display	4 lines x 20 characters with backlighting, character height 4.5mm
Keyboard	25 key tactile sealed. Customisable.
Communications	**RS232 Port :**
	300-38400 baud. 8,N,1 or 7,E,2, RTS/CTS or XON/XOFF handshaking.
	RS422 Port :
	4 wire RS422 (Opto-isolated TXD and RXD), 300 - 38400 Baud, selectable XON/XOFF handshaking or no handshake.
Connections	Pluggable screw terminals
I/O Options	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) with optional watchdog function.
Temperature	0 to 55 deg C (-20 to 80 deg C Storage)
Humidity	20% to 95% RH non-condensing
Desk-Top Version Protection	IP54
Panel-Mount Version Protection	Front - IP65* (Behind panel protection is IP20)
Wall Mount Protection	IP65*
Certification	CE

Outdoor Use requires high-performance keyboard overlay – price on application

Order Codes

ELX232	Panel mount with RS232 port
ELX232IO	as ELX232 + 4 digital inputs + 2 relay outputs
ELX232Node	as ELX232IO without display and keypad
ELX422	Panel mount with RS422 port instead of RS232
ELX422IO	as ELX422 + 4 digital inputs + 2 relay outputs
ELX422Node	as ELX422IO without display and keypad
WMX	Wall Mount Enclosure for ELX versions
ELV232	Desk-top version of ELX
ELV232IO	as ELV + 4 digital inputs + 2 relay outputs
ELV422	Desk-top version of ELX422
ELV422IO	as ELV422 + 4 digital inputs + 2 relay outputs
BJL	Long ball-joint mounting bracket for ELV models
BJS	Short ball-joint mounting bracket for ELV models
ELX232-STK1UK	RS232 Starter Kit / UK power supply
ELX232-STK1EU	RS232 Starter Kit / Euro power supply
ELX422-STK1UK	RS422 Starter Kit (Includes 232/422 converter)
ELX422-STK1EU	RS422 Starter Kit (Includes 232/422 converter)

Industrial Data

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Specifications subject to change without notice