Data Collection System With Wired or Wireless Networking

- **No cost keyboard customisation**
- **Magnetic swipecard, Barcode swipecard, Barcode scanner or RFID card for operator log-on etc.**
- **4 Machine monitoring inputs with integral counting and cycle time measurement**
- **Panel-mount, wall-mount, and desk-top configurations**
- **Wireless or RS485 network**
- **Bi-directional file transfer for DNC applications**

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

Each keypad terminal has 2 relay outputs and 4 opto-isolated digital inputs. Each input can count at up to 250 cycles/second and measure cycle time down to 4 mS
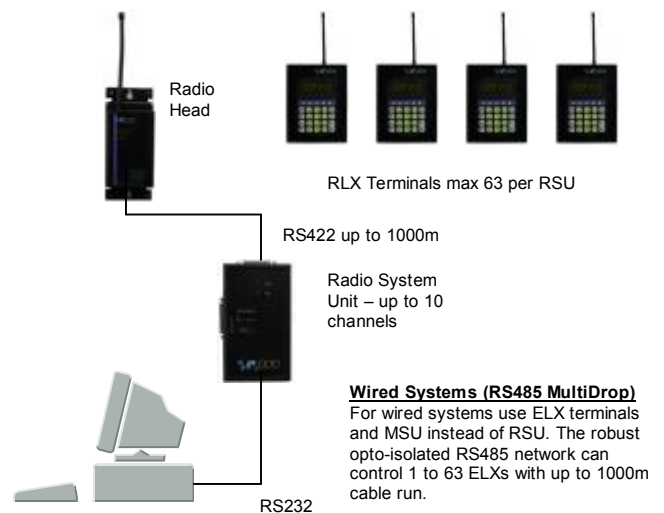
Quick Start Kits include manual, cables, power supply, keyboard configuration software, terminal emulators and program examples.

Typical Wireless Network

All keypad terminals are available with special front panel graphics included at no extra cost. Templates are downloaded and configured by the customer using CorelDraw™ to create and change key legends, add logo and photographs, in full colour.

Radio Head

RLX Terminals max 63 per RSU

RS422 up to 1000m

Radio System Unit – up to 10 channels

Wired Systems (RS485 MultiDrop)
For wired systems use ELX terminals and MSU instead of RSU. The robust opto-isolated RS485 network can control 1 to 63 ELXs with up to 1000m cable run.

RS232

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
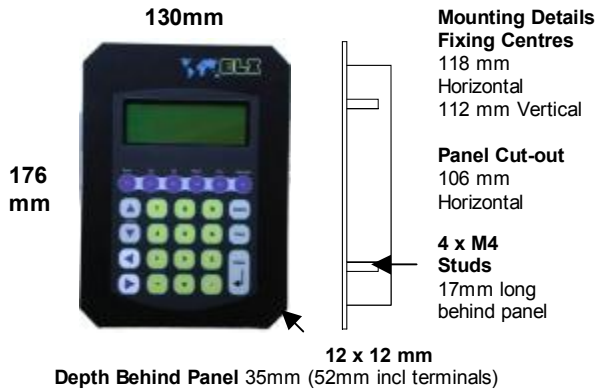

Industrial Data

Dimensions

Panel Mount ELX / RLX

130mm

176 mm

Mounting Details
Fixing Centres
118 mm Horizontal
112 mm Vertical

Panel Cut-out
106 mm Horizontal

4 x M4 Studs
17mm long behind panel

12 x 12 mm
Depth Behind Panel 35mm (52mm incl terminals)

Node, MSU, RSU and RadioHead

MSU

ELXNode

These products share the same housing and have the same dimensions : 80 x 173 x 47h mm (antenna + 110mm). Fixing Centres 158mm
Material : Anodised Aluminium. Colour : Black

RadioHead

Desk-Top Version ELD / RLD

ELD and RLD products, fitted with cable gland.

Material : ABS
Colour   : Black

Dimensions 134w x 190 x 55 (rear), 34 (front)

WMX (Wall Mount Enclosure)

The WMX provides a wall-mount solution when used with panel mount ELX and RLX products.
The enclosure comprises 2 sections with an "O" ring seal and is rated IP65 ingress protection.
The ELX or RLX fits to the front. The rear section can be installed separately. The WMX may also be fitted with a MagCard or BarSlot swipe reader, or an RFID reader.

Material : ABS   Colour : Dark Grey

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.
	RS485 MultiDrop Port :
	2 or 4 wire RS485 - 9600, 19200, 38400, or 115000 baud, up to 63 addresses. Opto-isolated.
	Wireless :
	433 MHz licence-exempt, range 50-100m in factory environment, up to 63 addresses, 10 channels
Connections	Pluggable screw terminals
I/O Options	4 Opto-isolated inputs. 5v 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. De-bounce 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 special keyboard overlay – price on application

Order Codes

RLX	Panel mount Wireless version with aux RS232 port
RLXIO	as RLX + 4 digital inputs + 2 relay outputs
RLXNode	as RLXIO without display and keypad
ELX 485	Panel mount MultiDrop RS485 with aux RS232 port
ELX 485IO	as ELX 485 + 4 digital inputs + 2 relay outputs
ELX485Node	as ELX 485IO without display and keypad
WMX	Wall Mount Enclosure for ELX and RLX
RLD	Desk-top version of RLX
RLDIO	as RLD + 4 digital inputs + 2 relay outputs
ELD 485	Desk-top version of ELX 485
ELD 485IO	as ELD 485 + 4 digital inputs + 2 relay outputs
ELX-STK2R-UK	Wireless Starter Kit (Includes Radio System Unit and Radiohead). UK Power Supplies
ELX-STK2R-EU	As above with Euro Power Supplies
ELX-STK2-UK	RS485 Starter Kit (Includes MultiDrop System Unit) UK Power Supply
ELX-STK2-EU	As above with Euro Power Supply
MSU	RS485 MultiDrop System Unit
RSU	Wireless System Unit
RadioHead	Wireless Transceiver module

Specifications subject to change without notice