



TYPE: X24-HD



X24-HD Wireless ATEX/IECEX Handheld Display

Description

The X24-HD is a highly configurable ATEX/IECEX handheld wireless display capable of working with X24 or T24 transmitter modules to allow remote viewing in the hazardous area of strain gauge inputs using 2.4GHz radio.

The X24-HD receives data from the remote transmitter module, such as the X24-ACMi-SA, captures this data and displays it. The handheld can operate by displaying data from any transmitter detected or you can define up to 24 specific transmitters to allow the operator to cycle through. Grouping functions allows up to 8 group totals to be viewable. Each group or individual transmitter has user defined name, scaling, display format, zero functions and overload settings.

The licence-free 2.4GHz radio signal provides a line-of-sight communication range of up to 800 metres (2600 feet), approved for FCC, IC and European use. The flexible transmission rates and low power usage allows for long battery/cell life for remote modules, and the use of the latest DSSS radio technology minimises local radio interference and ensures data integrity and security. The unit also has a wide operating temperature range and the robust technology that ensures that the X24-HD is not susceptible to harsh physical or electrical environments.

The X24 Telemetry range of products are ATEX and IECEX approved members of the larger T24 Telemetry product range. Systems can be put together using X24 in the hazardous areas and T24 in safe areas as required. Free Toolkit software provides simplified configuration of modules and other free software provides logging and visualisation functionality for Windows PCs.

Specification

Licence	Licence exempt
Radio type	Transceiver (2 way)
Radio frequency	2.4 GHz
Power	10mW
Range	Up to 800 metres (2600 feet)
Channels	24
Power supply voltage	2.3 to 3.6vdc
Batteries	Energizer L91 AA (must be used)
Estimated battery life: standby mode (power off)	>5 years
continuous operation	54 hours
Operating temperature range	-10 to +50°C
Storage temperature range	-40 to +85°C
Humidity	0 - 95%RH
IP rating	IP67
ATEX certification details	II 2G Ex ib IIC T4 Gb Ta = -20 to +50°C I M2 Ex ib I

Features

- Battery powered and compact
- Simple operation
- Will connect to a single or multiple acquisition unit/load cell for wireless communications
- Worldwide licence exempt 2.4GHz radio
- Up to 800 metre (2600 feet) range maximum
- Environmentally sealed to IP67
- Approved for use in explosive atmospheres, Zones 1 & 2

Typical Applications

- Wireless load shackles
- Wireless load links
- Hoist load monitoring
- Cable tension measurement
- Crane safe load monitoring



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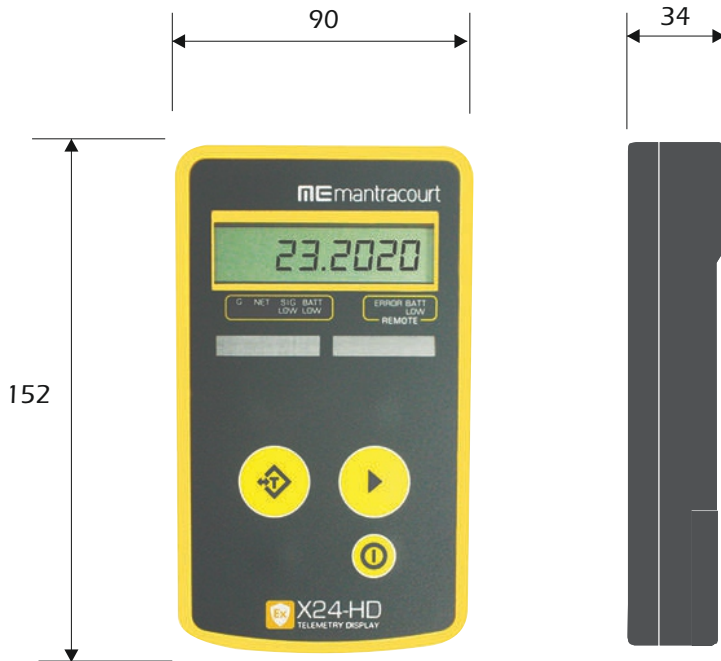
Business Hours: Monday - Friday 8:30AM - 6:15PM

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X24-HD ATEX/IECEX Wireless Handheld Display

Dimensions



All dimensions are in mm

Note: Only use with Energizer L91 batteries to comply with certification requirements.

Module transmits and receives using:

1. Full error detection and correction
2. Remote and local battery check

Additional features

- ⊙ Configurable back light
- ⊙ Built in audible alarm
- ⊙ View up to 24 individual devices
- ⊙ Summation option for up to 8 groups of devices
- ⊙ Overload warning
- ⊙ Cross compatible with X24 and T24 products
- ⊙ Gross, net and tare facility



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Due to continual product development, LCM Systems Ltd reserves the right to alter product specifications without prior notice.

CE Complies with EMC directive. 2004/108/EC

FC The Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive, 1999/5/EC. Family: RAD24

Industry Canada Industrie Canada IC:7224A-RAD24

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APPROVED

(unapproved if printed)