

Calibration and monitoring of load cells over extended distances

Featuring the versatile XT4-WT load cell to RS485 converter

Frequently applications require the location of a strain bridge transducer in a location remote from the desired monitoring location . Calibration of the transducer and setup of data transmission is time consuming and may involve working in access challenging locations.

The combination of products offered allows calibration and monitoring of a strain gauge transducer system from a location remote to the transducer (up to 1.2km).

The system consists of 2 subsystems.

The first is the load cell and XT4. The XT4 is an intelligent load cell interface with RS485 communications. This subsystem is located at the point of measurement (crane jib, weighbridge, silo farm etc).

The second part of the system is the display located where it can be conveniently monitored and functions controlled.

This would be in a crane cabin for example.

Displays available include the:

LD-RS series Large Digit Display range

PM4-RS series panel mount monitors

RM4-RS series DIN rail mount monitors

Special software in the monitor/display allows the unit to emulate a strain bridge monitor.

The calibration and operation of the XT4-WT is totally transparent to the user.

Calibration of the whole system is carried out at the monitor. This means that access to the load cell and XT4 combination is not required during set up and operation but only during physical installation.



Application illustration shows system as applied to a jib crane. A load pin and the XT4 intelligent load cell interface are located at the top of the jib. A display is located in the cabin of the crane.

Features

- Remote calibration and monitoring without need to access XT4 and load cell after installation
- Transmission distance up to 1.2km
- Operation of XT4 is transparent to user
- Pushbutton calibration and setup
- Relay output(s) standard for setpoint or alarm indication
- Further RS485 retransmission can be added to monitors to allow for additional remote displays
- Analog retransmission available
- Wide range of power supplies in both AC & DC voltages for all display types
- Display sizes range from 5 digit x 7.6mm (for the RM4 series) to 100mm in LED or "flip" digits in the LD series

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AMALGAMATED INSTRUMENT CO PTY LTD

ACN: 001 589 439

Unit 5, 28 Leighton Place Hornsby
NSW 2077 AUSTRALIA

Telephone: +61 2 9476 2244
Facsimile: +61 2 9476 2902

e-mail: sales@aicpl.com.au
Internet: www.aicpl.com.au