® Electro Standards Laboratories

ADVANCED SYSTEMS DESIGN & SERVICES

MADE IN USA

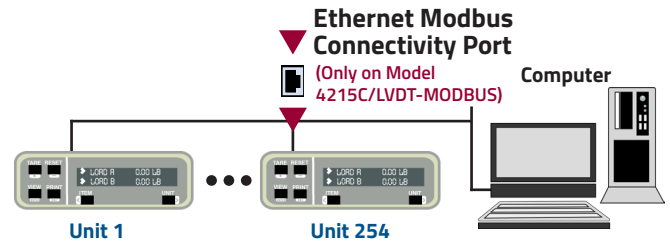# Model 4215 Series Smart Indicators

Introduction

The Model 4215 Series Smart Indicators are designed to provide high accuracy and high performance in force measurement and control. May be connected to a wide variety of tensile testers, extensometers, torque transducers, load cells and other strain gage transducers.

Industry Applications

- Test & Measurement Labs
- Manufacturing Facilities/Processing Plants
- Automotive Facilities
- Aerospace/Spacecraft Industries
- Construction
- Soil Testing, etc.
- Military/Defense
- Oil/Gas

and More!

Custom Labeling Services Available!

Custom logo and Text capabilities allow Electro Standard Laboratories to tailor each M4215 to your specific needs!
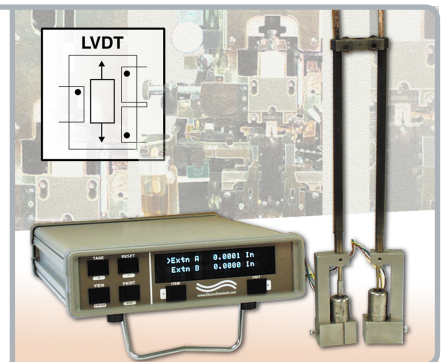

Ethernet Modbus Connectivity Port
(Only on Model 4215C/LVDT-MODBUS)
Computer
Unit 1   Unit 254

Model 4215C, 4215C-LVDT and 4215C-LVDT/MODBUS

The Model 4215 Smart Indicator connects to a wide variety of tensile testers, extensometers, torque transducers, and other strain gage transducers.

The Model 4215C-LVDT Smart Indicator connects to a wide variety of LVDT's and strain gage transducers.

Model 4215 Series Smart Indicators

Standard Features: (Included)

- Fully Bipolar Range +/- 999,999 display
- 24-bit resolution
- Nonlinearity 0.005% (Linearity 0.05% for M4215C-LVDT and M4215C-LVDT/MODBUS versions)
- Two channel *Simultaneous* read (Exclusive to M4215C-LVDT and M4215C-LVDT/MODBUS
- 2-line X 20-character vacuum fluorescent display
- Plug and Play TEDS-Tag® Auto LVDT Identification
- User input text label on second line of display
- Auto setup for 25 Model 4215C-LVDT/MODBUS units
- Functions include: peak / valley / hold / tracking / peak reset
- Quad limits output: independent, isolated solid state relays control AC or DC signals
- Six user-selectable filters
- Tri-state limit display: on, off, disabled
- Automatic display unit conversion: in, cm, %
- Dual output: +/-10V std; +/-5V, 0-5V, 0-10V std. per request
- Direct analog amplifier output
- RS485 std. upon request
- Full operation and calibration via RS232
- 5-point linearization
- Includes sum, difference, average of two channels
- Analog output + RS232 ASCII Commands
- USB Communications Port
- Ethernet Modbus Connectivity (Exclusive to M4215C-LVDT/MODBUS

Available Features: (Additional Purchase)

- 4 - 20 mA output.
- Rugged carry handle.
- Two channel option available.
- Two channel units are standard with simultaneous read.
- Two channel unit has two independent lines of 20 character display for simultaneous viewing of both channels (std for 2-ch unit).
- 10-Point Linearization
- Second D/A Output

Model 4215C:

The Model 4215 is an intelligent microprocessor based instrument designed for the measurement and control of strain gage transducer based systems. It combines force channels, encoder position channels, print capabilities, and RS 232/485 USB serial communications into a versatile platform that can be customized to deliver the most powerful and affordable instrumentation in its class.

The Model 4215 is compatible with most tensile testers, load cells, extensometers, torque transducers, pressure sensors and position encoders.

Model 4215C-LVDT:

The Model 4215C-LVDT Advanced Digital LVDT Smart Indicator is an intelligent microprocessor-based instrument designed for the measurement and control of dual channel LVDT (Linear Variable Differential Transformer) measurement fixtures. It combines two simultaneous sample LVDT channels, print capabilities and RS 232/485 USB serial communication into a versatile platform that can be customized to deliver the most powerful and affordable instrumentation in its class.

The Model 4215C-LVDT/MODBUS Advanced Digital LVDT Smart Indictor provides all excitation and signal conditioning necessary to operate dual LVDT expansion measurement fixtures. The average extension is computed automatically and displayed. The unit also features analog outputs, limit switching, individual unit conversion and a two-line display. Factory options support mixing and matching of strain gauge and LVDT sensor inputs.

Whether you are upgrading an existing system or implementing a new one, the Model 4215C-LVDT/MODBUS brings you the accuracy, reliability, and repeatability needed to meet the most demanding applications.