

CellMite® LVDT AC Excitation Single Channel Intelligent Digital Signal Conditioner

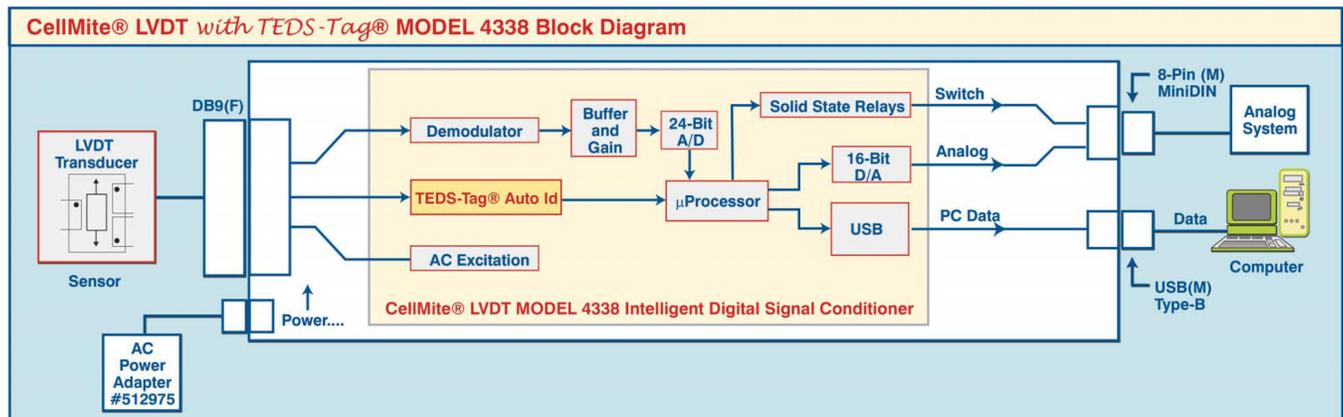
FEATURES:

- Single Channel (Model 4338)
- 2-pt, mV/V Calibration
- 6-pt Linearization Calibration
- Scalable $\pm 10V$ Analog Output
- 16-Bit Analog Output
- Direct to PC with USB Data
- 24-Bit Resolution
- Multiple Filter Selections
- Storage for Three Calibrated Transducers
- Selectable Sensor Gains
- Optional User Defined Remote feature
- Remote Sense Excitation
- Addressable for Serial Network
- Tare, Peak, Valley.
- Unit Support: In, Cm, mm, %, Lb, Kg, N, mV/V, User Defined.
- **TEDS-Tag® Auto Identification**
- Power Supplies Internally Isolated
- Graphical User Interfaces (GUI) and Software Drivers sold separately. Select from:
 - CellView Lite GUI (Cat. No 514569)
 - CellView Multi-Display GUI (Cat No. 514424)
 - Software Drivers (Cat No. 514864)

The **Model 4338 CellMite® LVDT with TEDS-Tag®** digital signal conditioner from Electro Standards Laboratories connects directly to a standard AC LVDT (Linear Variable Differential Transformer) transducer and simultaneously generates a serial output for connection to a PC and a $\pm 10V$ analog output. The CellMite® LVDT can be operated with a computer or simply setup by a computer and then used as a stand-alone intelligent LVDT digital signal conditioner with analog output.

The Model 4338 CellMite® LVDT with TEDS-Tag® compensates for transducer nonlinearities using its integrated 6-point calibration capability not found in standard signal conditioners. Its USB port and simple command set allow for connection of multiple units in a serial network configuration. This compact unit is ideally suited for in-situ transducer conditioning and distributed process measurements.

The Model 4338 features include nonvolatile memory for parameter and calibration storage, ability to select between 3 stored LVDT calibrations, **automatic LVDT identification using TEDS-Tag® technology**, multi-point and mV/V calibration, internal generation on precision sine wave AC excitation voltage, remote sense excitation, and 24-bit internal resolution with 16-bit analog output.





Electro Standards Laboratories

ADVANCED SYSTEMS DESIGN & SERVICES



CellMite® LVDT Specifications:

Excitation:

Voltage: 3kHz, 3Vrms (std)
Sensors: LVDT's AC Bridges

Operation:

Internal Resolution: 24-bit.
Input Range: software adjustable from <10mV/V to >100mV/V
Conversion Rate: 60 per second
Error: 0.05% +/-1 Count
Precision Shunt: 60KΩ for bridge applications
Pushbutton: Tare, Shunt
Indicator: Status LED

Input/Output Connectors:

- (1) 8 Pin MiniDIN (F) Connector for Analog Data, Solid State Relay signals, and options.
- (1) USB Type-B Connector (M) for PC data.
- (1) DB9 (F) Connector for Sensor Signals.

Power (Barrel connector, female):

Included Adapter: (Cat No 512975) **CE, RoHS, and UL** listed table mount power module, 100VAC/240VAC, 50Hz/60Hz to 5VDC, 0.5A. Has IEC 60320 C14 inlet. **Ideal for international applications.**

Optional Adapter: 12, 24, 48 VDC

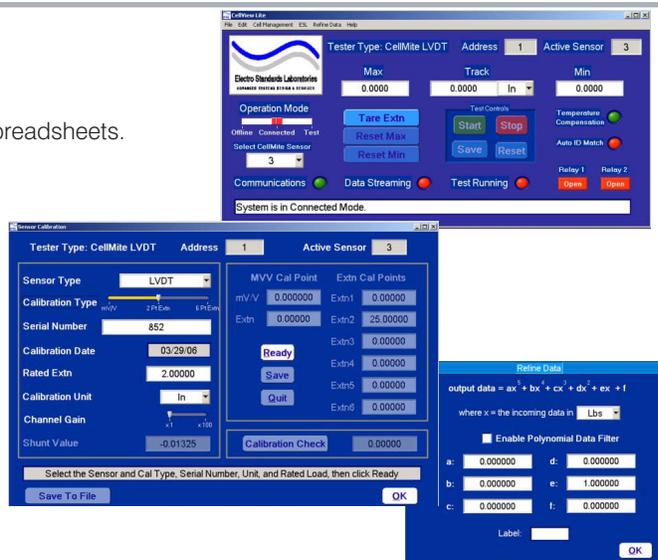
Mechanical:

Size: 6.5" x 2.75" x 1.5" (16.5 x 7.0 x 3.8 cm)
Weight: 1 lb. (454 g)

CellView Lite GUI Software (Cat No. 514569)

Features:

- Turnkey data acquisition system.
- Save data, calibration, and sensor test information to Excel spreadsheets.
- Guides user through sensor calibration.
- Guides user through adding/removing networked Model 4338 units.
- Ability to select any networked Model 4338 unit.
- Ability to individually name Model 4338 units.
- Tare and reset peak and valley for the sensor.
- Save/Load the M4338 unit and sensor setup information.
- Set output with user defined 5th order polynomial function.
- Setup a test to start and/or stop automatically.
- Control Model 4338 solid state output relay switches.
- User programmable analog output voltage range.
- Units of In, Cm, mm, %, Lb, Kg, User Defined.
- Optional user defined remote feature.



CellView Multi-Display GUI Software (Cat No. 514424)

Features:

- Turnkey simultaneous data acquisition system for networked CellMite® and CellMite® LVDT units.
- Supports mix and match of CellMite® and CellMite® LVDT units on network
- Ability to define 8 simultaneous data displays from multiple channels on multiple units.
- Save data, calibration, and sensor test information to Excel spreadsheets for all networked units.
- Guides user through sensor calibrations.
- Guides user through adding/removing networked CellMite® and CellMite® LVDT units.
- Ability to select and name any networked units.
- Tare and reset peak and valley for the sensors.
- Save/Load units and sensor setup information.
- Set output with user defined 5th order polynomial function.
- Setup a test to start and/or stop automatically with user selectable trigger events and delayed triggering.
- Multi sample rate data acquisition via user definable logging profile.
- User programmable analog output voltage range for attached CellMite® and CellMite® LVDT units.
- Units of In, Cm, mm, %, Lb, Kg, mV/V, and User Defined.

