



Electro Standards Laboratories

ADVANCED SYSTEMS DESIGN & SERVICES

SPECIFICATIONS

MODEL 4337 CellMite® (Cat. No. 304337)
Optional CellView Software family available

CellMite® with Auto Identifying Display Complete Digital Conditioner for Strain Gage Sensors

Features:

- Auto Identifying Display
- 2-pt mV/V Calibration
- 6-pt Linearization Calibration
- Scalable $\pm 10V$ Analog Output
- 16-bit Analog Output
- Direct to PC over USB port
- 24 Bit Resolution
- Multiple Filter Selections
- Storage for Three Calibrated Transducers
- Din Rail mount available.
- Remote Sense Excitation
- Addressable for Serial Network
- Tare, Peak, Valley
- Unit Support: Lb, Kg, N, In, cm, mm, %, mV/V, User Defined
- TEDS-Tag® Auto Identification
- Power Supplies Internally Isolated
- CellView Lite GUI Option
- CellView Multi-Unit GUI Option
- CellView Software Drivers Option

The CellMite® Model 4337 with auto identifying display is a digital signal conditioner from Electro Standards Laboratories that connects directly to a standard strain gage transducer and simultaneously generates a serial output for direct connection to a PC, a scalable $\pm 10V$ analog output for interface to data acquisition systems, and a 16-character auto identifying display for direct readout viewing. The Model 4337 has on board storage for three calibrated sensors, each with integrated 6-point calibration and independent user specified display setup parameters. When a TEDS-Tag® capable sensor is connected to the unit, that sensor is immediately identified by the Model 4337 and its stored calibration data and display configuration are automatically loaded. If that sensor is removed and another TEDS-Tag® sensor is connected, then its calibration data and display data are automatically loaded. Unlike other units in its class, auto sensor identification and auto display identification require no user intervention and prevent field personnel from making costly mistakes due to incorrect sensor calibration or display setup.

The CellMite® Model 4337 can be fully operated with a computer or simply setup by a computer and then used as a stand-alone intelligent digital signal conditioner with auto identifying analog and alphanumeric display outputs.

The CellMite® Model 4337 integrates an intelligent 16-character backlit alphanumeric display with a CellMite® Model 4325B. The wide range numerical readout features 6 digits of display plus sign indicator and decimal point along with a unit of measure label and channel identifier. The Model 4337 automatically converts between a variety of scientific units including Lbs, Kg, In, cm, mm, and mV/V and can output these to the display. The location of the decimal point and unit of measure are setup via software but the computer is not required during operation.





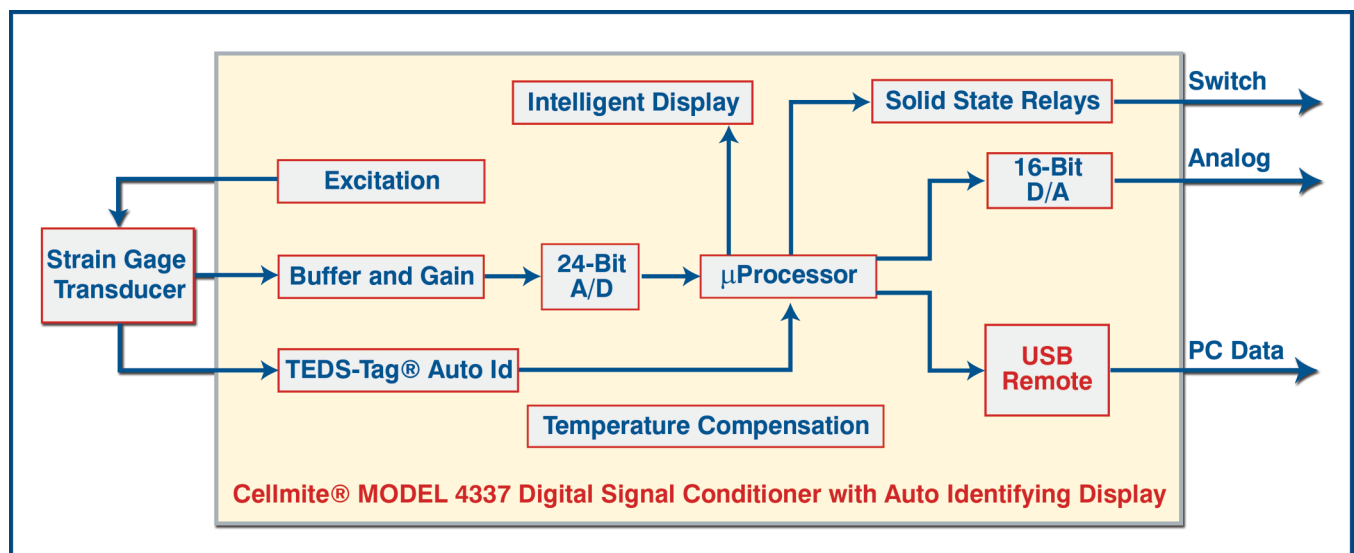
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The Model 4337 has a USB port that allows for connection of multiple units via a USB hub. This compact unit is ideally suited for in-situ transducer conditioning and distributed process measurements. It provides OEM users and system integrators with an affordable and complete strain gage-to-PC solution with intelligent display readout that is not found on competitive units.

The Model 4337 features include nonvolatile memory for parameter and calibration storage, ability to select between 3 stored calibrations, automatic sensor identification using TEDS-Tag® technology, solid state relay switches, multi-point and mV/V calibration, remote sense excitation, and 24-bit internal resolution with 16-bit analog output.

When used in combination with the Electro Standards Laboratories CellView family point-and-click GUI (Graphical User Interface) software, a turnkey data acquisition system is formed that can generate Excel compatible data files. The software also supports multiple units in a serial data network configuration and mix and match operation with the Electro Standards Laboratories Model 4331-200 two-channel CellMite® LVDT embedded digital signal conditioner boards. This allows the construction of mixed DC excited and AC excited sensor networks under a single software umbrella.



CellMite® Model 4337 Specifications:

Excitation:

Voltage: 5VDC
Nom. Load: 350 Ω Bridge

Operation:

Internal Resolution: 24-bit.
Input Range: ±5.5mV/V (std)

Conversion Rate: 60/sec.
Error: 0.01%, ±1 count
Pushbuttons: Tare, Shunt
Precision Shunt: 60KΩ
Indicator: status LED
Display Range: ±999999.

Outputs:

Analog: 16-bit, Scalable, ±10V.
Serial Data: USB 2.0
Switches: Dual solid state relays
Display: 16 Character backlit LCD

Power

Included Adapter: 5 VDC, 0.5A

Mechanical:

Size: 5.5" x 4" x 1.5"
Weight: 11.4 oz. (323g)
Din Rail mount available.