®

Electro Standards Laboratories

ADVANCED SYSTEMS DESIGN & SERVICES

SPECIFICATIONS
CellMite® MODEL 4329 (Cat. No. 304329)
CellMite® Master MODEL 4329M (Cat. No. 302329)
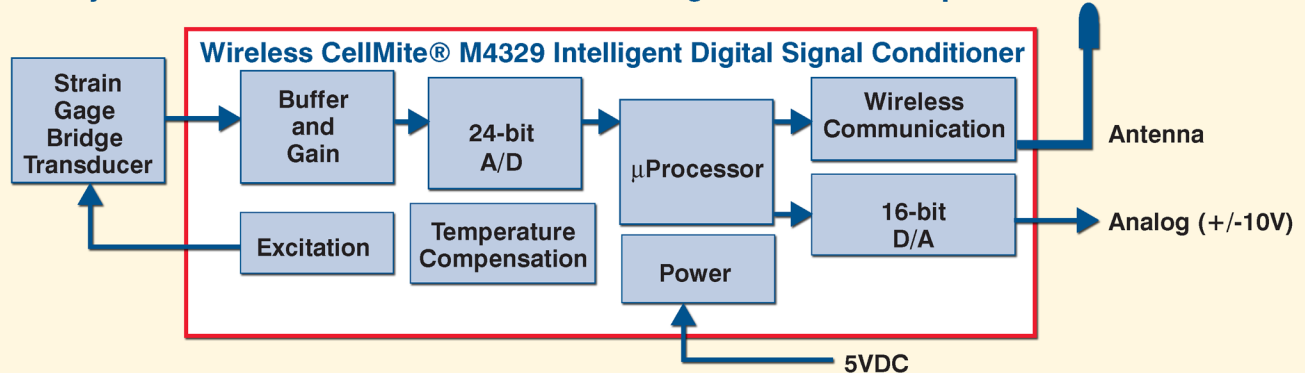CellView Lite Software (Cat. No. 514569)

CellMite® Model 4329 Wireless Intelligent Digital Signal Conditioner

Features:

- Model 4329 connects directly to a standard strain gage, load cell, extensometer, or pressure transducer.

- Wireless communication to 1500 feet.

- Wireless network with up to 8 CellMites®, no cables needed.

- Simplified distributed process measurements.

- Model 4329M Master CellMite® directly connects to a PC with RS232 - USB.

- Monitor and control networked units with Graphical User Interface. (GUI).

- +/- 10V analog output can be used for local indication and control.

- Simultaneous analog output and wireless communication.
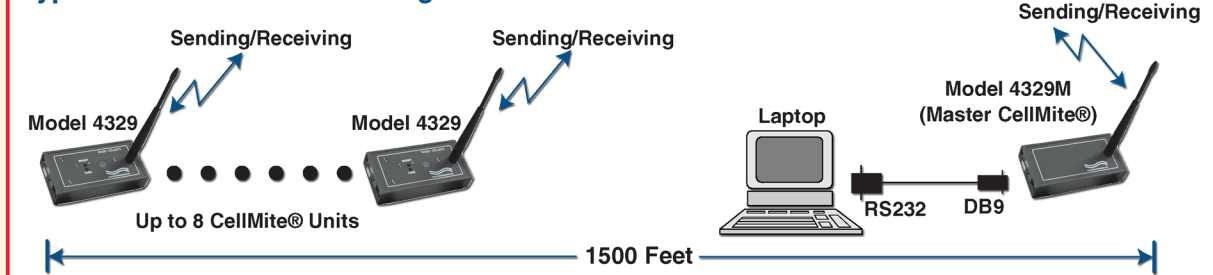
- Din Rail mount available.

Ideally suited for in-situ transducer conditioning and distributed process measurements!

Wireless CellMite® M4329 Intelligent Digital Signal Conditioner

CellMite® features a nonvolatile memory for parameter and calibration storage, the ability to select between three transducers, multi-point and mV/V calibration, remote sense excitation, and a 24-bit internal resolution with 16-bit analog output.

CellMite® compensates for transducer nonlinearities using its integrated 6-point calibration. Its wireless communication port and simple command set allow connection of up to 8 units in a wireless serial network configuration.

Typical Wireless Network Using CellMite® Model 4329

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CellMite® Model 4329 Specifications

Excitation:
Voltage: 5 VDC. Nom. Load 350 Ω.

Operation:
Input Range: +/-5.5 mV/V.
Conversion Rate: 60 per second.
Tare, Peak, Valley
Precision Shunt 60K

Outputs:
Analog: 16-bit, Scalable, +/-10V.
Serial Data: Multi-drop RS232.

Storage:
For 3 calibrated load cells.

Calibration Options:
2 pt, mV/V Calibration.

Calibration:
6 pt. Linearization Cal., 2 pt. Shunt.

Units:
Lb, Kg, In, Cm, %, User-Defined

Temperature:
Internal Temperature compensation.

Relay:
Solid State.

Resolution:
24-bit internal resolution, error 0.01%, +/- 1 count.

Mechanical:
Size: 5.5" x 2.75" x 1.2".
Weight: 8.9 oz. (252g).
Din Rail mount available.

Power:
5 VDC (+/-10%), 230mA.
(Included Adpater)110/240VAC, 60/50 Hz
Compatible with
4 x AA NiMH Rechargeable Batteries

Included:
 Manual on CD Rom

Wireless Operation:
Nominal Frequency 900 MHz
Classification: Mobile
This device complies with Part 15 of the FCC Rules.

CellView Lite Graphical User Interface (GUI)

Features:

- Guides user through adding/removing CellMite® units.
- Stores calibration data for three sensors.
- Guides user through sensor calibrations.
- Tare and reset peak and valley for the sensor.
- Set output data with a quadratic filter.
- Save/Load the CellMite® unit and sensor setup information.
- Setup a test to start and/or stop automatically.
- LEDs indicate operational status of the GUI.
- Save data, calibration, and sensor test information to spreadsheets.
- Control output with relay switch.
- User programmable analog output voltage.

output data = $ax^2 + bx + c$
where x = the incoming data in selected test units