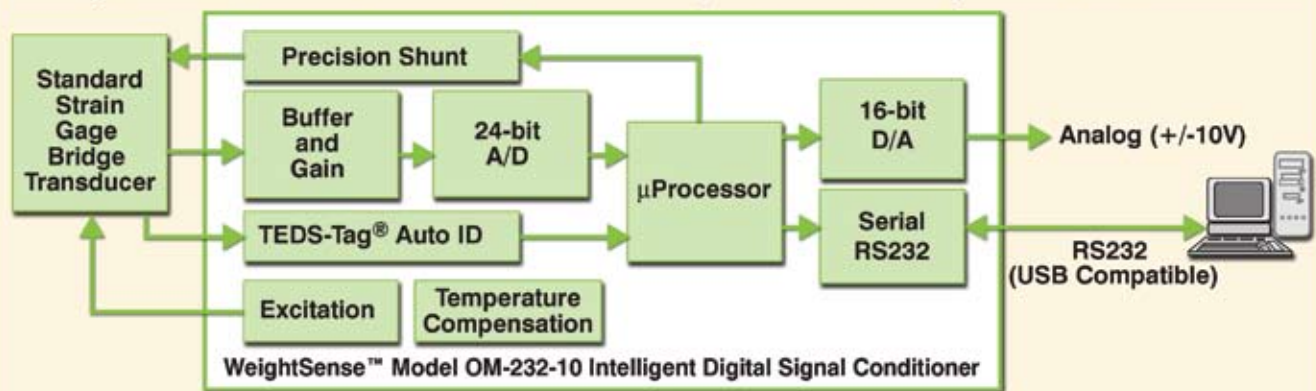


WeightSense™ Model OM-232-10 Intelligent Digital Signal Conditioner With TEDS-Tag® Auto Identification

Features:

- Single Channel (Model OM-232-10)
- 2-pt mV/V Calibration
- 6-pt Linearization Calibration
- Scalable +/- 10V Analog Output
- 16-Bit Analog Output
- Direct to PC with RS232 Data
- 24 Bit Resolution
- Multiple Filter Selections
- Storage for Three Calibrated Transducers
- Precision Shunt
- Remote Sense Excitation
- Addressable for Serial Network
- Tare, Peak, Valley.
- Unit Support: Lb, Kg, N, mV/V, In, Cm, mm, %, or User Defined.
- TEDS-Tag® Auto Identification
- Power Supplies Internally Isolated
- ScaleWatch™ Lite Graphical User Interface (GUI) Included along with Three TEDs-Tag® Auto ID Components.

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



WeightSense™ is a compact digital signal conditioner that connects directly to a standard strain gage-based load cell, extensometer, or pressure sensor and simultaneously generates a serial digital output for connection to a PC as well as a +/- 10V analog output.

WeightSense™ compensates for transducer nonlinearities using its integrated 6-point calibration capability not found in standard signal conditioners. Its multi-drop RS232 serial port, unit addressing capabilities, and simple command set allow for connection of multiple units in a serial network configuration. The TEDS-Tag® auto identification feature with integrated electronic tags allows the WeightSense™ to automatically select the correct sensor calibration and analog output for scaling for the connected transducer.

WeightSense™ 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.





WeightSense™ Model OM-232-10 Specifications

Excitation:

Voltage: 5 VDC. Nom. Load 350 Ω.

Operation:

Internal Resolution: 24-bit.
 Input Range: +/-5.5 mV/V.
 Conversion Rate: 60 per second.
 Error: 0/01%, +/- 1 count.
 Precision Shunt 60K.

Outputs:

Analog: 16-bit, Scalable, +/-10V.
 Serial Data: Multi-drop RS-232.

Mechanical:

Size: 5.5" x 2.75" x 1.2".
 Weight: 8.3 oz. (235g).

Power:

5 VDC, 150mA. (Included Adpater)
 110/240VAC, 60/50 Hz.

Included Items:

ScaleWatch™ Lite Software
 Three TEDS-Tag® Auto ID Components
 DB9 Mating Connectors
 Operational Manual on CD ROM.

ScaleWatch™ Lite GUI Software

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 WeightSense™ unit.
- Ability to select any networked Model OM-232-10 unit
- Ability to individually name Model OM-232-10 units
- Tare and reset peak and valley for the sensor
- Save/Load the Model OM-232-10 unit and sensor setup information
- Set output data with user defined 5th order polynomial function
- Setup a test to start and/or stop automatically
- Control Model solid state output relay switches
- User programmable analog output voltage range
- Unit Support: Lb, Kg, N, mV/V, In, Cm, mm, % or User Defined

