

Model OM-232-D WeightSense™ with Auto Identifying Display Complete Digital Signal 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 with RS232 Data
- 24 Bit Resolution
- Multiple Filter Selections
- Storage for Three Calibrated Transducers
- 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

The Model OM-232-D WeightSense™ with auto identifying display is a digital signal conditioner from Load Cell Central 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 OM-232-D WeightSense™ with auto identifying display 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 WeightSense™ with auto identifying display 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 Model OM-232-D WeightSense™ with auto identifying display 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.

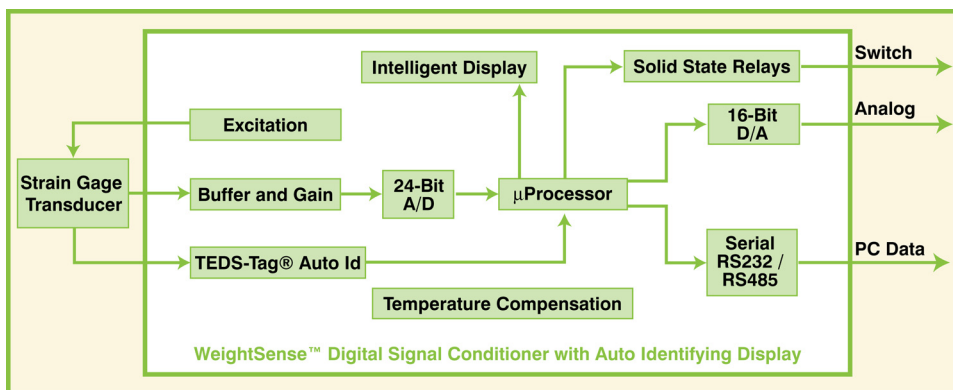
The Model OM-232-D WeightSense™ with auto identifying display integrates an intelligent 16-character backlit alphanumeric display with a WeightSense™ OM-232-10. The wide range numerical readout features 6 digits of display plus sign indicator and decimal point along with a unit of measure label and channel identifier. The Model OM-232-D WeightSense™ with auto identifying display 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.



The Model OM-232-D WeightSense™ with auto identifying display has a multi-drop RS232/RS485 serial port that allows 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. 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 OM-232-D WeightSense™ with auto identifying display 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 Load Cell Central ScaleWatch™ point-and-click GUI (Graphical User Interface) software, a turnkey data acquisition system is formed that can generate Excel compatible data files.



WeightSense™ with Auto Identifying Display Specifications

Excitation:

Voltage: 5 VDC.
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: 60K Ω
Indicator: status LED
Display Range: ±999999.

Outputs:

Analog: 16-bit, Scalable ±10V.
Serial Data: Multi-drop RS232, RS485.
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 option available.