

The classic DF2000 indicator has more than 14 years of history being a high performance, low cost indicator with a track record of several thousand units in use today. Built upon the philosophy and reputation of the DF2000, the new M2000 is our second generation product continuing the 2000 legacy into the new millennium.

With increased A/D sampling speed and high resolution converter technology, the M2000 can display up to 20,000 displayed divisions, and is NTEP CLASS III/IIIL certified to 10,000 divisions with sampling up to 100 times a second per channel, ideal for demanding weighing applications such as high speed batching.

The M2000 offers 3 independent channels without using traditional multiplexing techniques. This ensures fast, predictable weighing with no performance loss in multi channel weighing modes.

Having multi-channel capability allows the M2000 to support weighing of more than one scale. For truck weighing applications, this means a multi-deck scale could be set up to weigh individual truck axles. All channels on the M2000 can be summed together in total mode, giving the total axle weight of the vehicle. Switching to individual channel mode allows you to inspect individual axle weights.



The M2000 supports analog and digital loadcell systems. The M2000D allows you to implement all the advantages of a digital load cell system without being locked into proprietary digital load cell technology.

Features:

- Units conversion: lbs/kg
- Zero Tracking: 1-99% of d or 1,2,3d
- Resolution: +/- 52000 A/D internal counts
- Sampling rate: 100 times a second per channel
- Span stability: 2ppm/deg C
- Zero Stability: 5nV/deg C
- Linearity correction: 10 span entries
- Calibration Method: calibration through software stored in flash memory
- Calibration Sealing: physical seal or Class1 Audit Trail system, password protected
- Tare: Keyboard and scale tare, multiple tare id's can be stored in memory
- Time and Date: Time/date clock, internal battery backup
- Truck Database: capable of storing 150 truck id's with associated tare weights
- Truck In/Out Loop: truck in/out loop program for weigh in/ weigh out applications
- Ticket Editor: create custom tickets for serial printers. Indicator can store and recall different tickets.
- Power On: selectable on/off switch

Loadcell Input:

- Full Scale: 4 ranges 0-9mV, 0-19mV, 0-39mV, 0-79mV
- Excitation: 7.5VDC, 16x350 ohm, 32x700 ohm all three channels combined

Communications:

- Analog Output: optional 4-20mA board via Smart Wire
- Serial Output: 2 full duplex RS232/RS422 ports
- IO Interface: peripheral expansion through Smart Wire multi drop RS-485 port
- External IO: up to 6 channel set point via Smart Wire
- Baud Rate: 150-32,400 bps, selectable

Display:

- Size: 6 digit, 7 segment 1" red LED
- Filtering: Fast Step quick response algorithm adjustable filter
- Modes: display from CH1, CH2, CH3, and total of all channels in not legal for trade sites

Electrical:

- Power Requirements: 12VDC 1A
- Temperature Range: -10deg C to + 45deg C
- Setpoints: 6 programmable setpoints per channel
- Sense Amplifier: differential amplifier with 4 and 6 wire
- RFI Protection: filtered signal, excitation and sense lines

Approvals:

- Canada: Class III/IIIL 10000
- USA: NTEP Class III/IIIL 10000

Software:

Ask about our software to connect this indicator to your computer. Makes a great data acquisition system!