

WESTERN SCALE M2000 High-Speed Digital Weigh Indicators

M2000 HIGH-SPEED DIGITAL WEIGHT INDICATOR

Supporting ANALOG or DIGITAL Load Cell Technology

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 AD 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 weight of the vehicle. Switching to individual channel mode allows you to inspect individual axle weights.

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

Variations

Aside from the stainless steel NEMA4 model shown on the top of this page the M2000 is also available in a console style desk top version and in our classical slim line enclosure which is also suitable for panel mount applications.



M2000 indicators are available all three enclosure types for either analog or digital load cell technology.

Les Balances LEDUC & THIBEAULT Inc.

Montréal : (514) 239-7060 Mercier : (450) 691-2111 Fax : (450) 691-6764
visit our website at www.leduc-thibeault.com E-mail: info@leduc-thibeault.com

M2000 High-Speed Digital Weigh Indicators

M2000A-SL (analog, slim line), **M2000A-DT** (analog, desk top), **M2000A-NSS** (analog, nema stainless)
M2000D-SL (digital, slim line), **M2000D-DT** (digital, desk top), **M2000D-NSS** (digital, nema stainless)

Specifications

- Power requirements: 12VDC 1A.
- Temperature range: 14°F to 104°F (-10°C to +40°C).
- Full scale input signal: 4 ranges: 0-9mV, 0-19mV, 0-39mV and 0-79mV.
- Excitation voltage: 7.5VDC, 16x350 Ohm and 32x700 Ohm for all 3 channels combined.
- Sense amplifier: Differential amplifier with 4 and 6 wire.
- A/D internal resolution: 520,000 counts in both positive and negative direction.
- A/D Sampling rate: 100 times a second on each channel.
- Span stability: 2ppm/°C.
- Zero stability: 5nV/°C.
- Linearity correction: 10 span entries.
- Calibration method: Calibration through software stored to flash memory.
- Calibration sealing: Physical seal or class 1 audit trail system, password protected.
- RFI protection: Filtered signal, excitation and sense lines.
- Analog output: Optional 4-20mA board via SMART WIRE.
- Serial communications: 2 full-duplex RS232/RS422 ports.
- I/O interface: Peripheral expansion through SMART WIRE multi drop RS485 port.
- External I/O: Up to 6 channel setpoint board via SMART WIRE.
- Setpoints: 6 programmable setpoints.
- Digital filtering: Adjustable filter parameters with FAST STEP quick response algorithm.
- Display modes: Weight can be displayed from CH1, CH2, CH3 and as TOTAL of all channels.
- Tare: Keyboard and scale tare, multiple tare IDs can also be stored in memory.
- Time/Date: Y2K compliant time/date clock, internal battery back up.
- Truck database: Capable of storing 15-0 truck IDs with associated tare weights.
- Truck in/out loop: program for weigh-in and weigh-out applications.
- Units conversion: lb/kg.
- Zero tracking: 1-99% of 1d, 1d, 2d or 3d.
- Ticket editor: Create custom tickets for any serial printer, indicator can store and recall different tickets.
- Enclosure dimensions: SL=9"x4"x1", DT=9.75"x6"x2.5", NSS=10"x7.5"x3".

Approvals: NTEP Class III/IIIL 10000, Measurement Canada Class III 10000 and IIIHD 20000.

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