

The Compu-M is a versatile microprocessor-based integrator designed for continuous in-line weighing of dry bulk solids. It functions reliably with both conveyor belt scales and dry solids flowmeters.

Operating with a one or two load cell or LVDT based belt scale system, the Compu-M provides local display of load, speed, flow rate and totalized flow. With either an LVDT or load cell based solids flowmeter, it provides readout of flow rate and totalized flow. In either mode, there is an analog mA output, a relay contact for rate alarm, and provision for remote totalization.

Calibration is automatic and relatively simple to achieve, with operating conditions simulated to perform a zero and span calibration. A material test may then be performed to verify system accuracy and the Compu-M programmed to correct any deviation. It is simple to commission and easy to maintain.

The unit features power loss protected memory, input/output control and a multiple input A/D converter for diagnostic input signal monitoring.



Product Features

- Versatile integrator for belt scales and solids flowmeters
- Simple, automatic calibration functions
- Proven performance
- Provides basic information quickly, easily and economically
- Analog mA output, and relay contact for rate alarm
- Provision for remote totalization
- Low maintenance

Technical Specifications

Power

- standard: 100/115/200/230 Vac $\pm 10\%$, 50/60 Hz, 15 VA
- optional:
 - 12 ± 2 Vdc, 15 W
 - 24 ± 4 Vdc, 15 W

Environmental

- location: indoor
- altitude: 2000 m maximum
- ambient temperature: -20 to 50°C (-5 to 122°F)
- relative humidity: 80 % for temperatures up to 50°C (122°F)
- installation category: II
- pollution degree: 2

Inputs

- load cell: 0 - 45 mVdc per load cell, 2 cells maximum
- LVDT: 0 - 0.75 V rms, 2.9 kHz
- speed sensor: 5 - 15 Vdc pulses, 2 Hz to 2000 Hz (for belt scales only)

Outputs

- analog: 0 - 20 or 4 - 20 mA, non-isolated, 0.1% resolution, 750 Ω maximum load
- speed sensor excitation: 12 Vdc, 120 mA maximum
- totalizer, remote
 - contact closure 32-288 ms duration
 - 1 form 'C' relay contact rated 2 A at 250 Vac,
 - 50 VA maximum resistive
 - 15 closures per second maximum
- alarm relay: 1 S.P.D.T. contact rated at 5 A at 250 Vac non-inductive
- load cell excitation: 10 Vdc nominal, 100 mA maximum
- LVDT excitation: 2.5 Vac rms, 2.9 kHz

Displays

- liquid crystal: 8 digits, 13 mm (0.5") high with backlight
- LED: 4 display mode indicators

Accuracy

- $\pm 0.1\%$ of span

Resolution

- $\pm 0.02\%$ of span

Memory

- EEPROM (non-volatile) no back-up battery required

Enclosure

- standard: 209 W x 285 H x 92 mm D (8.2 W x 11.2 H x 3.6" D)
- polycarbonate
- Type 4X / NEMA 4X / IP 65

Keypad

- 20 key sealed membrane with tactile feedback

Weight

- standard: 2.5 kg (5 lbs.)

Approvals

- CE *, FM, CSA_{NRTL/C}

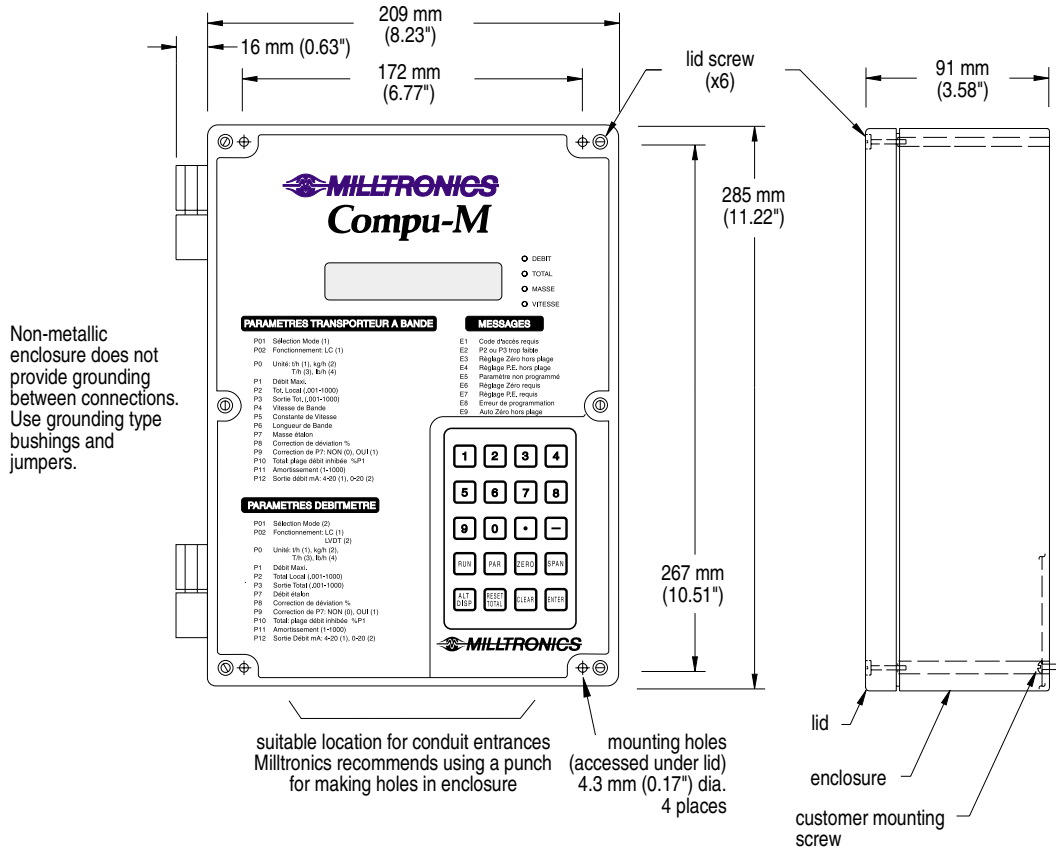
Current Output Isolator (optional)

- Model: LIs-1 loop isolator
- Input: 4-20 mA dc (from Compu-M)
- Output: 4-20 mA dc into 600 Ω maximum
- Common Mode Rejection: 100 dB at 50 Hz
- Weight: 0.27 kg (0.6 lbs.)

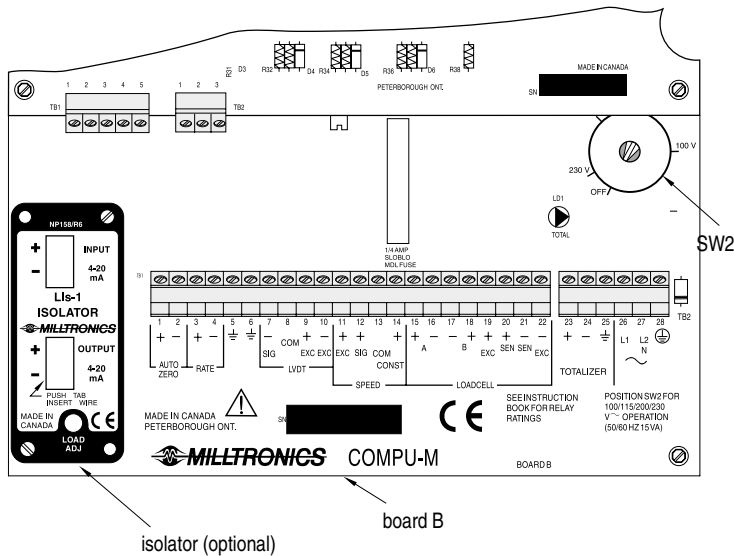
* EMC performance available upon request.

Specifications are subject to change without notice.

Dimensions



Connections



Notes

- All field wiring must have insulation suitable for at least 250V.
- dc terminals shall be supplied from a SELV source in accordance with IEC-1010-1 Annex H



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