



CompuScale III Integrator

For certified
weighing
belt scale
applications

- Superior accuracy
- Microprocessor simplicity
- NTEP Approved*



EASY TO USE

Increased customer convenience is the design basis for the CompuScale III. It is simple to install and easy to commission, operate and maintain. At the same time, the CompuScale III provides advanced levels of information, quickly and effectively.

This system is versatile. Use it with Milltronics' Mass Dynamics models MUS, MSI, MMI and MTS belt scales, or retrofit any other currently installed one, two or four load cell belt scale system. With our optional load cell pre-amplifier, LCPA-08, the CompuScale III can be used in handling six to eight load cell inputs. It is also suitable for retrofit of LVDT-based belt scales.

FAST CALIBRATION

In operation, the CompuScale III provides a digital read-out of rate, total, speed and load with outputs for remote rate indication and totalization. This system features non-volatile memory for protection of data in the event of power outages.

The CompuScale III uses a high resolution analog-to-digital conversion scheme for setting ZERO and SPAN enabling quick, simple calibration.

CONVENIENT AND RELIABLE

Both the software and hardware features increase customer convenience while maximizing reliability. With the CompuScale III, you are assured of accurate, reliable data with which to make informed process decisions.

* NTEP APPROVED FOR CONVEYOR BELT SCALES WHEN USED WITH THE MILLTRONICS MMI-02 BELT SCALE AND MD-36A SPEED SENSOR

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Features

- ◆ The digital display includes extra large, high resolution illuminated characters and graphics for viewing from a distance, and a multi-line display for more information at-a-glance. A bar graph for analog presentation of digital data is standard.
- ◆ Parameters are identified, units of measure displayed and prompting of input value range data is provided. A complete parameter identification listing for programming with minimal assistance is also included.
- ◆ The unit is programmable while in the run mode. This provides the operator with immediate feedback when modifying system parameters. (This feature can be disabled, if desired.)
- ◆ In addition to English, a second language (French or Spanish) is available on request.
- ◆ Calibration is simple, and achieved by direct entry of parameters through the tactile keypad.
- ◆ A communication link to a host computer or PLC is provided to accommodate up to 16 units in a current loop configuration.
- ◆ All information is safeguarded in non-volatile memory in the event of a power loss. With power-up, operation continues.
- ◆ The robust, steel enclosure has a removable conduit installation plate.
- ◆ Built-in diagnostics provide for efficient installation and commissioning and viewing of sensor input signals.
- ◆ Load cells are balanced electronically.
- ◆ A real time clock displays and prints out date/time information.
- ◆ Security level and certification mode is selectable.
- ◆ Communications and alarm are standard features.

Specifications

Power: 100/115/200/230 Vac $\pm 10\%$, selectable 50/60 Hz, 65 VA
Ambient Temperature: -20 to 50°C (-5 to 122°F)

→ **INPUTS**

Load Cell: -20 to 45 mV per cell, 4 load cells max.
LVDT: 0 to 0.75 V rms, 3 kHz
Speed Sensor: 5-15 Vdc pulses, 2 - 2000 Hz
Contact Inputs: For print request and auto zero activation
Multispan: 4 contact inputs for up to 8 spans
Keypad: 20 key sealed membrane

→ **OUTPUTS**

Load Cell Excitation: 10 Vdc, 250 mA max.
LVDT Excitation: 2.0 V rms, 3 kHz, 50 mA rms max.
Speed Sensor Excitation: 15 Vdc, 150 mA max.
Analog: 4-20 mA (0-25 mA scalable), isolated, proportional to rate, 0.1% resolution, 750 ohm max. load
Remote Totalizer: 1 form "A" contact rated 2A at 250 Vac max., 100 VA max.; 15 closures per second max.
Alarms: 2 multipurpose relays (for rate, load, or speed) 1 form "C" contact each, 5 A @ 230 Vac
Display: Backlit 256 x 128 dot matrix graphics LCD
Communication: 2 serial ports, RS232C and ± 20 mA current loop, baud rate selectable from 300 to 9600, 1 relay, 4 PDT, used for communication loop drop-out
Enclosure: NEMA 4 style steel construction with polycarbonate window 330 mm W x 406 mm H x 102 mm D (13" W x 16" H x 4" D)
Shipping Weight: 11.0 kg (24 lbs.)
Options: Speed sensor; LCPA-08 interface; incline compensator; barrier strips; enclosure heater; food grade remote totalizer relay; CVCC bipolar current/RS232C interface; BIC II, 6 port bipolar current loop/RS232C or RS422 interface
Approvals: CSA general purpose. Unit not approved for sale in EEC.

Specifications subject to change without notice.
Y2K Compliant - Year 2000 Compliant

Milltronics' Mass Dynamics Division offers a range of belt scales, solids flowmeters, weighfeeders, acoustic sensors and motion sensing equipment. Designed to withstand the sustained rigours of heavy primary industries, these products have proven their reliability in a wide range of harsh applications including the mining, mineral processing and cement industries. They are also used extensively in wet and dry food processing and petrochemicals.



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