



Compu-M Integrator

Versatile integrator for continuous in-line weighing with belt scales and solids flowmeters

- Easy to use
- Reliable
- Cost effective



SIMPLE AND ECONOMICAL

Designed for simplified in-line weighing, the Compu-M integrator functions reliably with belt scales or solids flowmeters. It provides the basic information required quickly, easily and economically.

This compact unit features a lightweight, extremely durable polycarbonate enclosure. Inside, it incorporates the highest standards of microprocessor technology. Years of practical experience have been combined with field tested software routines to produce an integrator which is simple to commission and easy to maintain.

VERY VERSATILE

This integrator is versatile. Use the Compu-M with Milltronics' Mass Dynamics' MUS, MSI and MTS, or retrofit any other currently installed one or two load cell belt scale system. When used as a solids flowmeter integrator, the Compu-M functions with either LVDT or load cell based designs, as well as with competitive devices.

As a belt scale integrator, the Compu-M provides a readout of rate, total, speed and load. As a solids flowmeter integrator, it provides rate and totalization. In either mode, there is an analog output and provision for remote totalization.

The Compu-M can operate from a DC source of 12 or 24 Vdc with an optional DC to DC converter.

VERY DEPENDABLE

Embedded in the heart of the Compu-M system is a technically innovative low power micro-controller. Its versatile program capability is specifically suited to the requirements of high accuracy weighing applications. It features power-loss protected memory, input/output control and a multiple input A/D converter for diagnostic input signal monitoring. A high resolution A/D conversion scheme makes the single step calibration of zero and span achievable the first time.

EASY TO PROGRAM

Set-up is simple with the Compu-M using the built-in push button key pad. A sequencing, self advancing program to set parameters, diagnostic message prompts and an easy-to-read backlit LCD display combine for ease of operation.

ALARM RELAY

The SPDT alarm relay can be used to avoid material spills, prevent overloading on the belt or to prompt belt cleaning. By utilizing this feature, the need for a costly control system can be avoided.

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Specifications

Accuracy	±0.1% of span	→ OUTPUTS	
Resolution	±0.02% of span	Analog	0-20 mA or 4-20 mA proportional to rate, 750Ω max. 600Ω with optional LIS isolator
Power Requirements	100/115/200/230 Vac ±10%, 50/60 Hz, 15 VA, selectable	Alarm Relay	1 form "C" (SPDT) contact rated 5A to 250 Vac non-inductive. For alarming, choice of rate, speed or zero error.
Ambient Temperature (outside enclosure)	-20 to 50°C (-5 to 122°F)	Digital	For remote totalization: Isolated Form A contact rated to 15 Hz; contact rating 250 Vac, 2A max.
Sensor Excitation	Load cells: Isolated 10 Vdc nominal, 100 mA max. LVDT: 2.5 Vac RMS @ 2.9 KHz Speed sensor (belt scale only): 12 Vdc, 50 mA max.	Display	8 full digit LCD display 90 x 20mm (3.5" W x 0.75" H)
→ INPUTS		Keypad	20 embossed keys, sealed membrane with tactile feedback. Display mode indication LED's - Belt Scale: Rate, Total, Load, Speed Flowmeter: Rate or Total
Load Cell	0-45 mV per load cell (2 load cells max.)	Memory	Non-volatile memory (EEPROM), for parameters and dynamic values - no battery required
LVDT	0-0.75 Vac RMS @ 2.9 KHz	Enclosure	NEMA 4 polycarbonate
Digital	5-15 Vdc pulses @ 2 - 2000 Hz speed sensor (belt scale only)	Size	92mm D x 209mm W x 285mm H (3.6" x 8.23" x 11.23")
Contact	Constant speed (belt scale only), self-initiated auto zero	Weight:	3.6 kg (8 lbs.)
		Approvals	CE*. CSA _{NRTL/C} . (*EMC performance available upon request.)

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 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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