



Accumass BW100 Integrator

Compact, low cost belt scale integrator



The Accumass BW100 is a compact, cost effective belt scale integrator. It can be used on any belt scale with up to two strain gauge load cells. Advanced microprocessor based technology is used to process both belt load and speed signals and output accurate, stable readings of flow rate and totalized weight of bulk solid materials. The BW100 integrator is compatible with most Milltronics Mass Dynamics' belt scales and speed sensors. As a retrofit, the unit will work with any single or dual load cell based weighbridge.

EASY OPERATION

Information on flow rate, totalized weight, belt load and conveying speed of bulk solid materials is shown on a large, easily understood display. The display features a bar graph which gives percentage of rate and other relevant information at a glance. Viewing the bar graph provides instant reference to current rate compared with full scale, without the need to make any calculations. This cuts down on the possibility of human error.

Two totalizers are re-settable either by the operator or through parameters, and may be programmed to give total security from interference.

This low-maintenance unit is easily programmed by a four button control pad featuring tactile feedback keys which are used to set all parameters. Alternatively, the BW100 may be programmed, parameters set up, and information downloaded using the optional Milltronics' DOLPHIN package. The complete parameter set up for each unit can be saved to, and restored from disk enabling an operator to duplicate set up procedures when programming multiple units. Both installation time and operator training needs are reduced. The unit also features flash EEPROM which allows for easy addition of future upgrades and software release enhancements.

INSTALLATION

The terminal block compartment design of the BW100 minimizes the risk of exposure of circuit boards to the elements or contaminants and the danger of static discharge.

ALARM RELAY

The SPDT alarm relay may 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 may be avoided. The relay may be set to alarm for a choice of load, speed, rate, zero, error or diagnostic alarm.

Link to Laptop or PC via DOLPHIN



Milltronics' DOLPHIN is a Windows™ based software package that allows complete parameter set up and downloading from the Accumass BW100 through a laptop or other PC. The complete parameter set up for each unit can be saved to, or restored from a disk. This reduces the need for replication of programming in multiple unit applications. Parameter listing records are stored easily, providing instant traceability and easy addition of updates.

Dolphin prompts the user during operation with the relevant parameter descriptions and on-line HELP needed to program the host unit. This reduces the need for any referral to the instruction manual. Effectively the manual is in the software.

The CONVERTER, a patented communications link, connects the instrumentation to the computer via an infrared link, eliminating the need to open the enclosure. This provides considerable time saving and reduces the possibility of product contamination.

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AUTO LOAD CELL BALANCE

The Accumass BW100 improves accuracy by electronically balancing the weighbridge load cells. The system is unaffected by uneven lateral loading and there is no need for load cell matching or mechanical balancing.

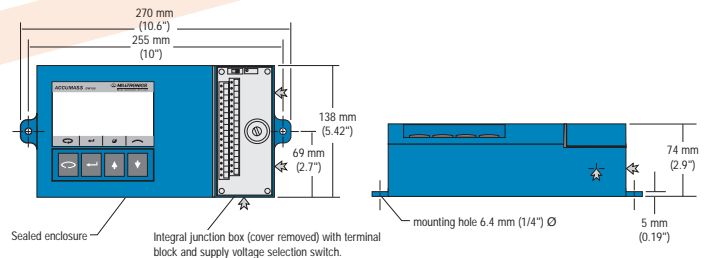
POWER SUPPLY OPTIONS

The BW100 is available as either an AC or DC powered unit.

Specifications

Applications	Bulk solids flow	→ INPUTS	
Accuracy	0.1% of full scale	Load Cell	1 or 2 load cell signals, -10 to 45 mV.
Resolution	0.02% of full scale	Speed Sensor	1 to 2000 Hz, 5 to 15 Vdc peak, open collector or dry contact closure.
Power	100/115/200/230 Vac ±15% 50/60 Hz, 15 VA. Optional 12 Vdc and 24 Vdc	Constant Speed	Dry contact for conveyor running status when speed sensor is not utilized.
Programming	Key pad programmable or Dolphin compatible via optional Milltronics infrared ComVerter	Auto-Zero	Dry contact for self initiated automatic zero.
Display	Graphic 38 mm x 100 mm (1.5" x 4") LCD for measurement readings and operating status	Enclosure	27 cm x 13.8 cm x 7.4 cm (10.6" x 5.4" x 2.9") polypropylene alloy. Rated NEMA 4X/IP65.
Ambient Temperature	-20° to 50°C (-5° to 122°F)	Shipping Weight	1 kg (2.2 lb.)
→ OUTPUTS		Compatible Belt Scales	Milltronics' Mass Dynamics models MUS, MSI & MTS and most single or dual load cell models.
Excitation	Compensated 10 Vdc for 1 or 2 strain gauge load cells. 12 Vdc for speed sensing device.	Compatible Speed Sensors	Milltronics Mass Dynamics speed sensors or any device providing inputs specified above.
Alarm Relay	1 form C (SPDT) contact rated 5A to 250 Vac non-inductive. For alarming of choice of rate, load, speed, zero, error and diagnostics.	Approvals	CE*. CSA _{NRTL/C} . FM pending. *EMC performance available upon request.
mA output	Optically isolated 0/4-20 mA, scalable. Max loading: 750 Ω (ohm). Selectable for rate, load or speed.		
Communications	Bi-polar serial current loop. Optional Dolphin interface (requires RS 232 Interface on PC, Windows™).		
Remote Totalizer	One open collector output for low voltage dc switching maximum 30 volts, 100 mA. One solid state output for switching of high level dc and ac voltages. Maximum 240 Vac or dc, 100 mA.		

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.



1954 Technology Dr., P.O. Box 4225, Peterborough, Ont., **Canada** K9J 7B1
Tel.: +1 705-745-2431 Fax: +1 705-741-0466
182 Normanby Rd., Box 339, South Melbourne, 3205, **Australia**
Tel.: +011-613-9695-2400 Fax: +011-613-9695-2450
August van de Wielelei 97, 2100 Deurne, Antwerp, **Belgium**
Tel.: +32(0)3326 45 54 Fax: +32(0)3326 05 25
Century House, Bridgwater Road, Worcester, **England** WR4 9ZQ
Tel.: +44 1905-450500 Fax: +44 1905-450501
Parc de la Sainte Victoire, Bât. 5, 13590 Meyreuil, **France**
Tel.: +33 4 42 65 69 00 Fax: +33 4 42 58 63 95
Werftstrasse 47, D-40549 Düsseldorf, **Germany**
Tel.: +49 211 562 5025 Fax: +49 211 562 6030
1 Hoi Wan Street, Suite 602, Quarry Bay, **Hong Kong**
Tel.: +011 852-2856-3166 Fax: +011 852-2856-2962
Amores No. 1155, Col. del Valle, 03100 Mexico D.F., **Mexico**
Tel.: +52 5 575-27-28 Fax: +52 5 575-26-86
Nikkelstraat 10, NL-4823 AB Breda, **The Netherlands**
Tel.: +31(0)76 542 7 542 Fax: +31(0)76 542 8 542
709 Stadium Drive, Arlington, Texas **U.S.A.** 76011
Tel.: +1 817-277-3543 Fax: +1 817-277-3894

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