MILLTRONICS MUS

Belt scales

Milltronics belt scales

Milltronics MUS is a modular designed, medium- to heavy-duty belt scale for process indication.
Idler not included with belt scale.

Benefits

- Unique modular design
- Simple installation
- Low cost
- Easy retrofit

Application

Milltronics MUS operates with products like aggregates, sand, or minerals, providing continuous in-line weighing at a minimal cost. With no cross bridge, this versatile unit will fit most conveyor widths and standard idlers, and product build-up is reduced.
The construction and easy assembly of the MUS ensures quick delivery to meet even the tightest of schedules. Where scales are moved from conveyor to conveyor, the MUS also provides unmatched flexibility.
Operating with Milltronics BW500, SIWAREX WT241, WP241, or FTC microprocessor-based integrators, the MUS provides indication of flow rate, total weight, belt load, and speed of bulk solids materials on a belt conveyor. A speed sensor monitors conveyor belt speed for input to the integrator.

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TECHNICAL SPECIFICATIONS

Mode of operation **Measur ing principle**	Heavy duty strain gauge load cells measuring load on belt conveyor idlers
Typical applications	• Monitor fractionated stone on secondary surge belts and recirculating loads • Track daily production totals
Measurement accuracy **Accuracy**	± 0.5 ... 1 % of totalization over 25 ... 100 % operating range, application dependent
Repeatability	± 0.1 %
Medium conditions **Max. material temperature**	65 °C (150 °F)
Belt design **Belt width**	• Standard duty up to 1 000 mm (CEMA width up to 42 inch) • Heavy-duly up to 1 524 mm (CEMA width up to 60 inch) • Refer to dimensional drawing
Belt speed	Up to 3.0 mis (600 fpm)[2]
Capacity	Up to 5 000 t/h at maximum belt speed
Conveyor incline	• ± 20' from horizontal, fixed incline • Up to 30° with reduced accuracY[3]
Idlers **Idler profile**	• Flat to 35D • To 45' with reduced accuracy[3]
Idler diameter **Idler spacing**	50 ... 180 mm (2 ... 7 inch) 0.6 ... 1.5 m (2.0 ... 5.0 ft)
Load cell **Construction** **Degree of protection** **Cable length** **Excitation** **Output** **Non-linearity and hysteresis** **Non-repeatability** **Capacity** • Standard duty ranges • Heavy-duty ranges	 Nickel plated alloy steel IP66 3m (10 ft) 10 V DC nominal, 15 V DC max. 2 mV/V excitation at rated load cell capacity 0.02 % of rated output 0.01 % of rated output 20, 30, 50, 75, 100 kg (44, 66, 110, 165, 220 lb) 50, 100, 150, 200, 500 kg (110, 220, 330, 440, 1 100 lb)
Overload **Temperature**	150 % of rated capacity, ultimate 200 % of rated capacity • -40 ... +65 °C (-40 ... + 150 °F) operating range • -10 -F40 'C (15 ... +105 'F) compensated
Weight	Standard duty up to 44 lb (20 kg), 22 lb (10 kg) per side Heavy-duty up to 64 lb (30 kg), 32 lb (15 kg) per side
Interconnection wiring (to integrator)	• < 150 m (500 ft) 18 AWG (0.75 mrn^2) 6 conductor shielded cable • 150 m 300 m (500 .. 1 000 ft) 18 22 AWO (0,75 0.34 mm^2) 8 conductor shielded cable
Hazardous locations	Consult the factory
Approvals	CE, RCM, EAC, CMC

1) Accuracy subject to: on factory approved installations the belt scale system's totalized weight will be within the specified accuracy when compared to a known weighed material test sample. The test rate must be within the specified range of the design capacity and held constant for the duration of the test. The minimum material test sample must be equivalent to a sample obtained at the test flow rate for three revolutions of the belt or at least ten minutes running time, whichever is greater.

2) Contact Siemens application engineering (factorysupport.smpi@siemens.com) for consideration of higher belt speeds.

3) Review by Siemens application engineer required.

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