

Continuous metering for consistent performance

Milltronics dry solids flowmeters

Milltronics E Series

Low- to medium-capacity flowmeter for various product sizes, densities and fluidity, particularly fine powders

Milltronics V Series

Compact vertical flow, low- to medium-capacity flowmeter for various product sizes, densities and fluidity, particularly fine powders

Milltronics A Series

Heavy duty low- to medium-capacity flowmeter for aerated gravity conveyor applications



weighing TECHNOLOGY

Siemens Milltronics dry solids flowmeters enhance process control, contributing to improved quality of your end-product and a positive bottom line.

These flowmeters provide continuous in-line weighing of dry bulk solids with accurate, repeatable results and may be used for critical functions such as batch load-out and blending. They are heavy-duty, easy and quick to install in any environment, and are totally enclosed and dust-tight.

Milltronics flowmeters offer field proven technology for consistent performance.

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Technical specifications

	Milltronics E Series	Milltronics V Series	Milltronics A Series
Mode of operation			
	Milltronics ILE sensing head deflecting horizontal force to a Linear Variable Differential Transformer (LVDT)		
Typical applications	General purpose for most pre-feed applications: fly-ash, lime dosing, sugar, gypsum	Applications requiring a compact construction	Flowrate measurements downstream of an aerated gravity conveyor
Typical industries	<ul style="list-style-type: none"> ■ Chemicals ■ Minerals ■ Grain ■ Cement ■ Aggregates 	<ul style="list-style-type: none"> ■ Chemicals ■ Minerals ■ Mining ■ Cement 	<ul style="list-style-type: none"> ■ Cement ■ Fly ash ■ Raw meal cement
Performance			
Capacity range*	<ul style="list-style-type: none"> ■ E-40: 0.2 to 40 t/h (0.2 to 44 STPH) ■ E-300: 20 to 300 t/h (22 to 330 STPH) 	<ul style="list-style-type: none"> ■ V-40: 0.2 to 40 t/h (0.2 to 44 STPH) ■ V-300: 20 to 300 t/h (22 to 330 STPH) 	<ul style="list-style-type: none"> ■ A-40: 0.2 to 40 t/h (0.2 to 44 STPH) ■ A-300: 20 to 300 t/h (22 to 330 STPH)
Particle size (max.)	<ul style="list-style-type: none"> ■ E-40: 13 mm (0.5") ■ E-300: 25 mm (1.0") 	<ul style="list-style-type: none"> ■ V-40: 13 mm (0.5") ■ V-300: 25 mm (1.0") 	Powders less than 0.5 mm (0.02"), up to 3 mm (0.13")
Accuracy (% of design rate)	±1%		
Repeatability	±0.2%		
Turn down**	3:1		
Medium conditions			
Max. material temp.	232 °C (450 °F); optional 400 °C (750 °F)		
Sensing heads			
Type	E-40: ILE-37 E-300: ILE-61	V-40: ILE-37 V-300: ILE-61	A-40: ILE-37 A-300: ILE-61
Construction	Enclosed, dust-tight, mounted outside the process		
Sensing plate	304L (1.4306) stainless steel		
Sensing plate options	<ul style="list-style-type: none"> ■ 316L (1.4404) stainless steel ■ Mirror finish 	<ul style="list-style-type: none"> ■ 316L (1.4404) stainless steel ■ Mirror finish 	316L (1.4404) stainless steel
Sensing plate coatings	<ul style="list-style-type: none"> ■ Plasma A/R ■ Polyurethane ■ PTFE ■ Alumina ceramic 		
Sensing element	Linear Variable Differential Transformer (LVDT) external to process		
Construction			
Enclosure	<ul style="list-style-type: none"> ■ Painted mild steel ■ Optional: stainless steel 		
Inlet sizes (nominal)	<ul style="list-style-type: none"> ■ E-40: 50 to 250 mm (2 to 10") ■ E-300: 150 to 400 mm (6 to 16") (ASME or DIN flanges) 	<ul style="list-style-type: none"> ■ V-40: 76 x 152, 102 x 254, 127 x 305 mm (3 x 6, 4 x 10, 5 x 12") ■ V-300: 127 x 406, 152 x 508 mm (5 x 16, 6 x 20") 	<ul style="list-style-type: none"> ■ A-40: 203 or 305 mm (8 or 12") ■ A-300: 254, 356, 508 mm (10, 14 or 20")
Features	<ul style="list-style-type: none"> ■ Viscous fluid damper for operation with pulsating flow ■ Friction free displacement measurement ■ Sensing mechanism outside process 		
Interface			
Output	With Milltronics SF500 integrator: <ul style="list-style-type: none"> ■ Rate ■ PID ■ Totalized weight ■ Batching 		
Communications	<ul style="list-style-type: none"> ■ Milltronics SF500 integrator, on board Modbus® ■ Allen-Bradley® RIO, PROFIBUS DP, DeviceNet™ via SmartLinX® 		
Approvals			
	<ul style="list-style-type: none"> ■ CE ■ Optional CSA Class I, Group C and D, Class II, Group E, F, G 		

*These maximum flowrates are based on a material bulk density of 1.6 and flow guide selection.

** Turn down of 5:1 with use of integrator with linearizer function.

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Weighing technology with field experience

Siemens instruments come with extensive field experience with over a million instruments in industrial applications.

Designed to withstand the sustained rigors of heavy primary industries, these products have proven their reliability in a wide range of harsh applications in mining, mineral processing and cement industries. They are also used extensively in dry food processing and chemical industries.

With this experience, we understand the importance of reliability, and we know what it takes to make a trusted and accurate instrument for demanding applications.



Milltronics SF500

A full feature integrator for use with solids flowmeters, the SF500 indicates flow rate, totalized weight, as well as a programmable analog output and five programmable relays.