

FlowSlide 700

accurate and maintenance free Solid Flow Meter



Properties

- ◆ flow measurement of free flowing solids from 10 - 80 m³ per hour
- ◆ measurement nearly unaffected by grain size and bulk density
- ◆ excellent repeatability and accuracy
- ◆ factory pre calibration possible
- ◆ very low maintenance

Option

- ◆ Wear protection for heavy abrasive materials: Hardox
- ◆ Profibus interface
- ◆ MOD-Bus interface
- ◆ counting impulses / 4-20mA analogue output
- ◆ lower or higher flow rate with Baby-FlowSlide or Maxi-FlowSlide

Description

Inside the FlowSlide meter the product is running over a special curved slide. The product is generating a centripetal force directly proportional to the flow rate. Due to the special force transmission into the load cell, the measurement is almost unaffected by product density, grain size and friction. The FlowSlide system can be pre calibrated at factory.

Specification

FlowSlide 700

Enclosure

Aluminium, product exposed parts in stainless steel

Model	10	25	50	80
Measuring Range *				
	10m ³ /h	25m ³ /h	50m ³ /h	80m ³ /h
Dimensions				
height	700 mm			
depth	526 mm			
width	310 mm	470 mm	760 mm	1.120 mm
inlet	144 cm ²	336 cm ²	684 cm ²	1.116cm ²
[mm]	120x120	120x280	120x570	120x930
Weight				
	53 kg	74 kg	113 kg	130 kg

* for other flow rates refer to Baby-FlowSlide and Maxi-FlowSlide

Supply Voltage

via FlowSlide device, 5VDC clock circuited

Sensor

full bridge strain gauge
combined error 0.03%
protection class IP68, optional ATEX

Operating Conditions and Material Property

outside operating temperature -10°C up to +55°C noncondensing
the products should be free flowing and not tend to stick

Accuracy

dependant on work environment and installation conditions
typical system accuracy +/- 0.5% of measuring range
repeatability: +/- 0.2 %

Cleansing

compressed-air connection for energization and cyclic cleaning

Electronic FlowSlide

Enclosure

stainless steel, protection class IP67
wall or panel mounting

Dimensions

265 x 204 x 69mm (excl. clamp)

Weight

2.95kg

Display

colour display including trenddisplay
kg/h, Σ kg (3 counters)
Fault message on display

Supply Voltage

110-240VAC with 50-60Hz or 12-28 VDC

Control Unit

membrane keyboard, numeric and function keys

User Language

German, English, Spanish, Russian, Turkish

Input

full bridge strain gauge
optional transistor input channel

Optional Output

analogue output 4-20mA
counting impulses
transistor output channel
Profibus, ModBus TCP as slave

Operating Conditions

operation temperature -10°C up to +40°C.

Product variety

Product Code	Item
HW950/00100	FlowSlide 10 inclusive FlowSlide-Electronic
HW950/00250	FlowSlide 25 inclusive FlowSlide-Electronic
HW950/00500	FlowSlide 50 inclusive FlowSlide-Electronic
HW950/00800	FlowSlide 80 inclusive FlowSlide-Electronic
HW951/00100	Wear protection for product exposed parts against enhanced abrasiveness for FS10
HW951/00250	Wear protection for product exposed parts against enhanced abrasiveness for FS25
HW951/00500	Wear protection for product exposed parts against enhanced abrasiveness for FS50
HW951/00800	Wear protection for product exposed parts against enhanced abrasiveness for FS80
HW951/00270	ATEX Cleansing - elements for cleaning in explosion-proofed areas
HW990/00484	barrier component - for usage in explosion-proofed areas