

SpeedFlow 2.0

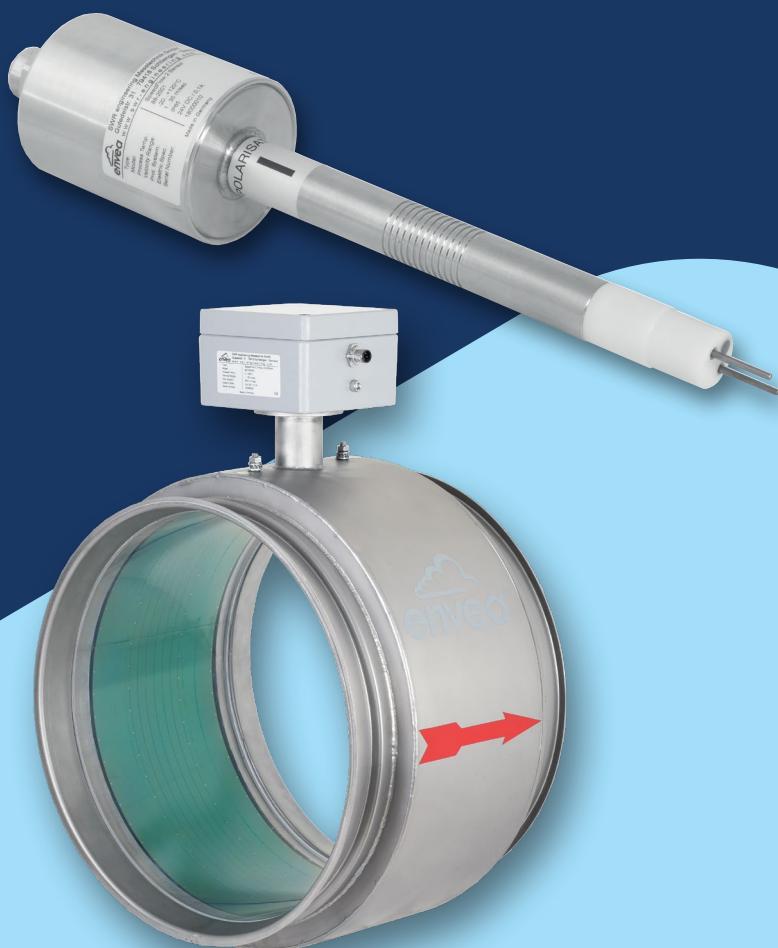
VELOCITY MEASUREMENT FOR SOLIDS



SpeedFlow 2.0 has been specially developed for the continuous speed measurement of solids such as granules, powder and dust in metal pipelines

FEATURES AND BENEFITS

- Usable in free fall and in pneumatics
- Continuous speed measurement of solids (powder, granules, dust) in metal pipes
- Measurement directly in the conveying stream / entrained flow
- Measurement is completely independent of material
- Simple retrofitting



SpeedFlow 2.0

VELOCITY MEASUREMENT FOR SOLIDS



TECHNICAL DATA

Sensor in pipe version		Sensor in rod version	
Innerdiameter	DN: 80, 100, 150, 200, 250, 350 (other sizes on request)	Weld-on socket	St52 or steel 1.4571
Material inner pipe	PMMA	Rod	Wolframcarbid
Mechanical connection	Flare connection	Housing	Steel 1.4571
Protection category	IP54	Protection category	IP65 to EN 60529/10.91
Max. pressure	100 mbar	Rod length	15 mm
Velocity range	1 ... 35 m/s	Velocity range	0.75 ... 35 m/s
Temperature inside the pipe	0 ... +50 °C	Temperature inside the pipe	-20 ... +80 °C (higher temperature on request)
Temperatur outside the pipe	0 ... +45 °C	Temperatur outside the pipe	0 ... +60 °C
Power supply	24 V DC	Power supply	24 V DC
Weight	Depend on diameter	Dimensions	Approx. 1.5 kg
Measuring accuracy	± 1 % in the calibrated measuring range	Weight	Ø 60, Ø 20, L 320 mm (incl. rod length)
Evaluation Unit (DIN Rail)		Measuring accuracy	
Power supply	24 V DC ±10 %	Evaluation Unit (field housing)	
Power consumption	20 W / 24 VA	Power supply	110 / 230 V AC 50 Hz (optional 24 V DC)
Protection type	IP40 to EN 60 529	Power consumption	20 W / 24 VA
Ambient operating temp.	-10 ... +45 °C	Protection type	IP65 to EN 60 529/10.91
Dimensions	23 x 90 x 118 mm (W x H x D)	Ambient operating temperature	-10 ... +45 °C
Weight	Approx. 172 g	Dimensions	258 x 237 x 174 mm (W x H x D)
DIN rail fastening	DIN 60715 TH35	Weight	Approx. 2.5 kg
Interface	RS 485 (ModBus RTU) / USB	Interface	RS 485 (ModBus RTU) / USB
Connection terminals cable cross-section	0.2 - 2.5 mm ² [AWG 24-14]	Cable screw connectors	3 x M20 (4.5 - 13 mm Ø)
Current output	1 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)	Connection terminals cable cross-section	0.2 - 2.5 mm ² [AWG 24-14]
Pulse output	Open collector - max. 30 V, 20 mA	Current output	3 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)
	Max. rated load: 250 V AC Max. peak current: 6 A	Pulse output	Open collector - max. 30 V, 20 mA
Relay contact	Max. rated load 230 V AC: 250 VA Max. breaking capacity DC1: 3/110/220 V: 3/0.35/0.2 A Min. switching load: 500 mW (10 V / 5 mA)		Max. rated load: 250 V AC Max. peak current: 6 A Max. rated load 230 V AC: 250 VA Max. breaking capacity DC1: 3/110/220 V: 3/0.35/0.2 A Min. switching load: 500 mW (10 V / 5 mA)
Data backup	Flash memory	Data backup	Flash memory