

SpeedFlow 2.0

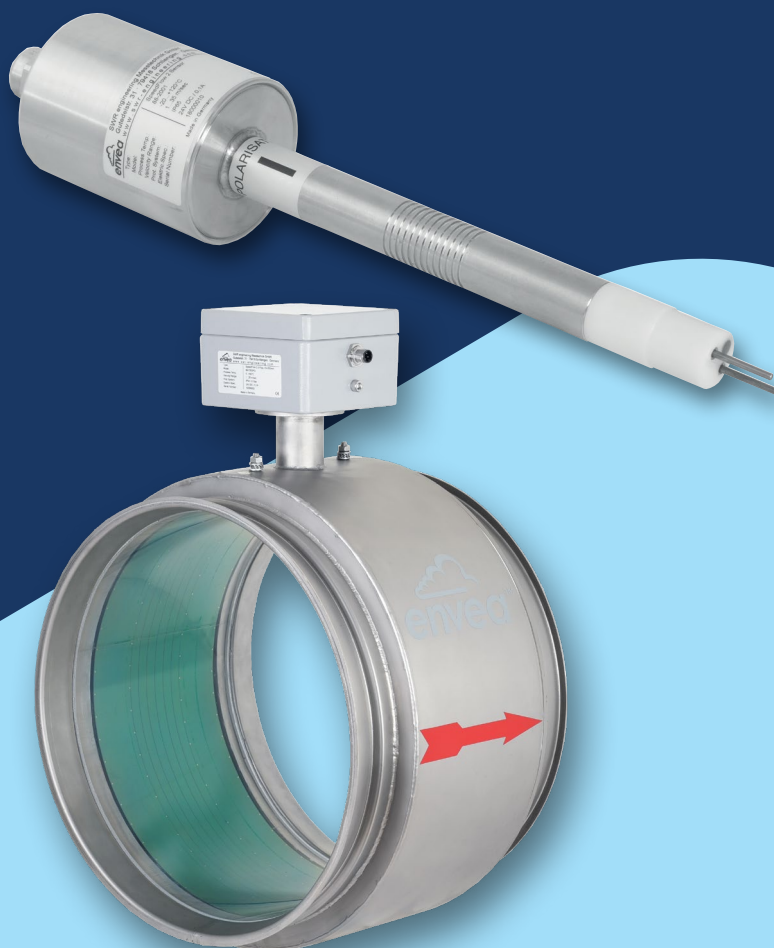
VELOCITY MEASUREMENT FOR SOLIDS



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

Innerdiameter	DN: 80, 100, 150, 200, 250, 350 (other sizes on request)
Material inner pipe	PMMA
Mechanical connection	Flare connection
Protection category	IP54
Max. pressure	100 mbar
Velocity range	1 ... 35 m/s
Temperature inside the pipe	0 ... +50 °C
Temperatur outside the pipe	0 ... +45 °C
Power supply	24 V DC
Weight	Depend on diameter
Measuring accuracy	± 1 % in the calibrated measuring range

Evaluation Unit (DIN Rail)

Power supply	24 V DC ±10 %
Power consumption	20 W / 24 VA
Protection type	IP40 to EN 60 529
Ambient operating temp.	-10 ... +45 °C
Dimensions	23 x 90 x 118 mm (W x H x D)
Weight	Approx. 172 g
DIN rail fastening	DIN 60715 TH35
Interface	RS 485 (ModBus RTU) / USB
Connection terminals cable cross-section	0.2 - 2.5 mm ² [AWG 24-14]
Current output	1 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)
Pulse output	Open collector - max. 30 V, 20 mA
Relay contact	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

Sensor in rod version

Weld-on socket	St52 or steel 1.4571
Rod	Wolframcarbid
Housing	Steel 1.4571
Protection category	IP65 to EN 60529/10.91
Rod length	15 mm
Velocity range	0.75 ... 35 m/s
Temperature inside the pipe	-20 ... +80 °C (higher temperature on request)
Temperatur outside the pipe	0 ... +60 °C
Power supply	24 V DC
Dimensions	Approx. 1.5 kg
Weight	Ø 60, Ø 20, L 320 mm (incl. rod length)
Measuring accuracy	± 1 % in the calibrated measuring range

Evaluation Unit (field housing)

Power supply	110 / 230 V AC 50 Hz (optional 24 V DC)
Power consumption	20 W / 24 VA
Protection type	IP65 to EN 60 529/10.91
Ambient operating temperature	-10 ... +45 °C
Dimensions	258 x 237 x 174 mm (W x H x D)
Weight	Approx. 2.5 kg
Interface	RS 485 (ModBus RTU) / USB
Cable screw connectors	3 x M20 (4.5 - 13 mm Ø)
Connection terminals cable cross-section	0.2 - 2.5 mm ² [AWG 24-14]
Current output	3 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)
Pulse output	Open collector - max. 30 V, 20 mA
Relay contact	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