

공정용 분체 유량계

시스템 기능

개요

SolidFlow 2.0은 파이프라인에서 분체 및 고형물의 양을 측정. 센서는 하기 분말, 과립자, 먼지 등에 대한 온라인 측정에 사용.

- 측정 가능 입자 크기 1nm ~ 10mm 사이.
- 공압 이송 라인
- 기계식 공급 피더 후 자유 낙하
- 측정가능 유량 kg ~ 20ton/h

SolidFlow 2.0은 Ex-zone 20또는 1에서 사용이 적합하여 모든 금속 파이프에 설치. 최신식 마이크로웨이브 24Ghz 기술을 사용한 비접촉식 측정으로 설치가 쉽고 용이.



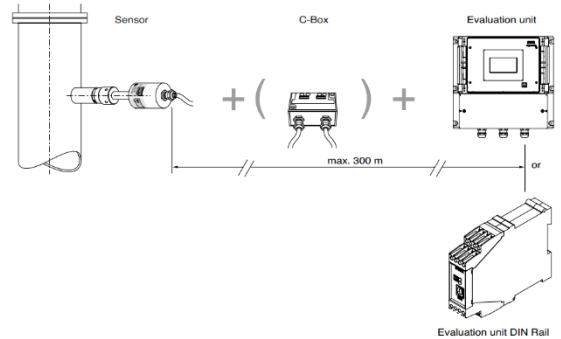
Model : SolidFlow 2.0

분체/고체 유량 측정
공압이송 / 자유낙하

시스템 구성

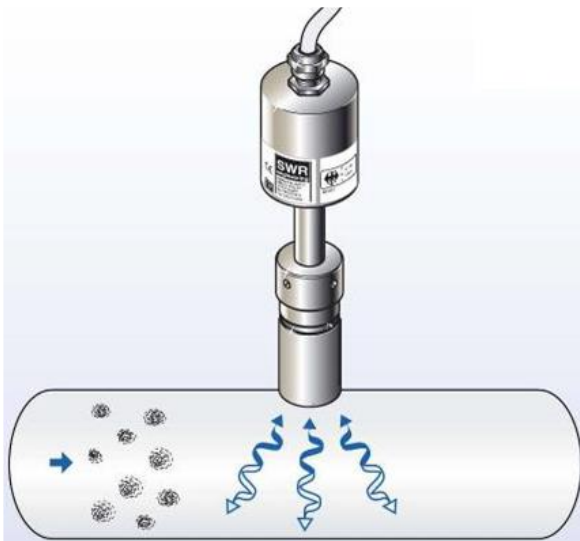
구성요소

- DIN Rail 또는 Field housing 평가 장치 컨버팅 디스플레이 유닛.
- 파이프 용접용 센서 소켓
- 센서(유니온 너트, 스페이서 링, 센서 깊이 조절 실링 링)
- 설치 지침서
- C1-box 또는 C3-box(옵션)

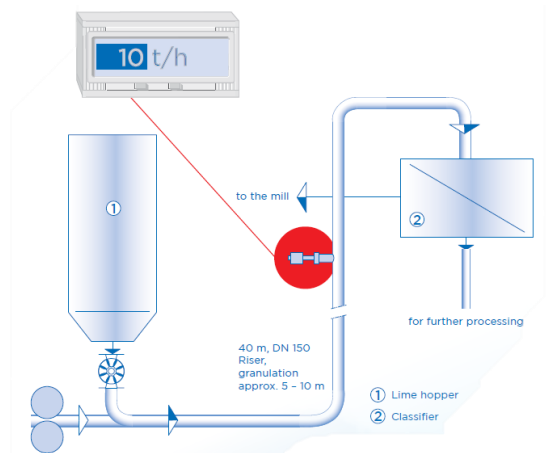
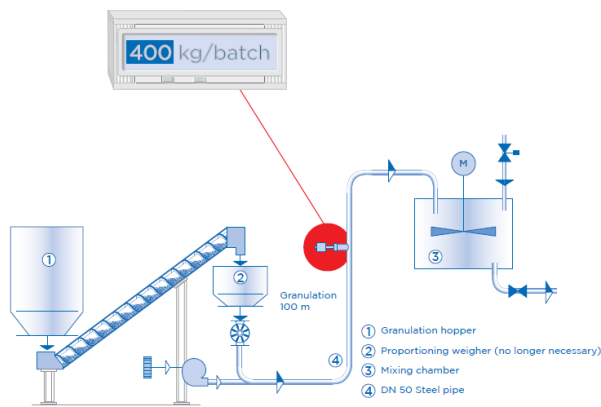
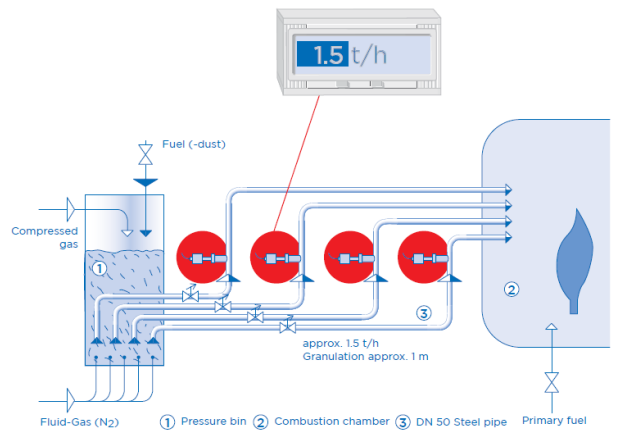
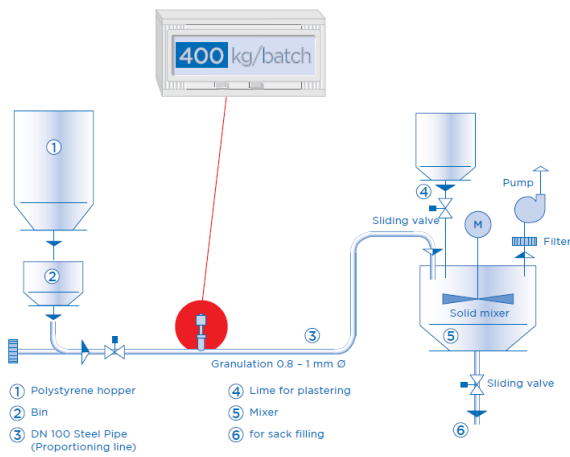
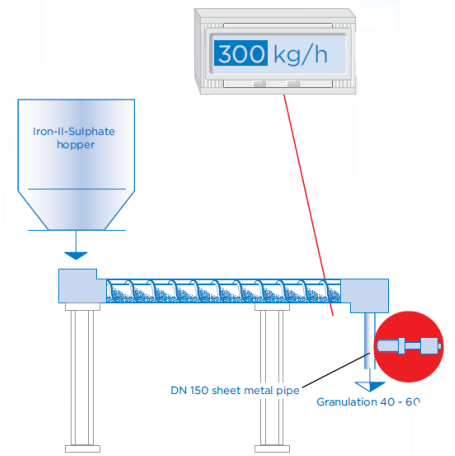
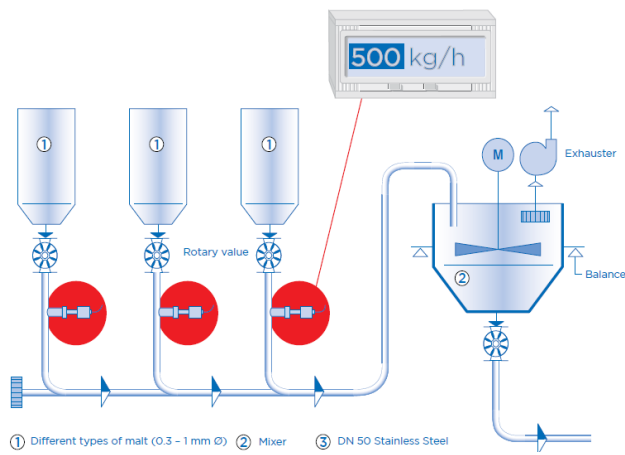


적용 어플리케이션

발전소	시멘트	화학	에너지플랜트
주조공정	소각장	광물	식품 / 커피 파우더
석회공정	바이오매스	도장설비	석고슬러지



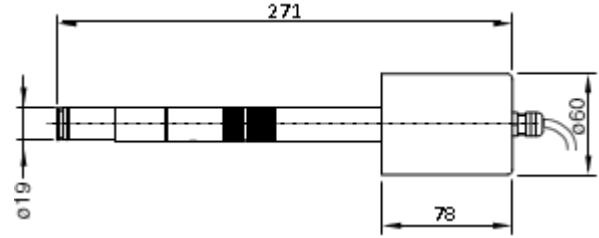
적용 가능 어플리케이션



Specification

Sensor

Housing material	Stainless steel 1.4571
Protection type	IP65, DustEx zone 20 or GasEx zone1(Optional)
Operating temp.	Front end of sensor : -20 ~ 80°C Optional : -20 ~ 220°C Sensor electronic : 0 ~ 60°C
Max. working pressure	1bar, Optional 10 bar
Working frequency	K-Band 24.125 GHz, ±100MHz
Transmitting power	Max. 5mW
Weight	1.3kg
Dimensions	Ø60, Ø20, L 271 mm
Accuracy	±2 ~ 5 % in calibrated range



Transmitter (DIN Rail)

Power supply	24 VDC ±10%
Power consumption	20W / 24VA
Protection type	IP40 to EN 60 529
Ambient operating Temperature	-10 ~ +45 °C
Dimensions	23 x 90 x 118 mm (W x H x D)
Weight	Approx. 172g
DIN rail fastening	DIN 60715 TH35
Connection terminals Cable cross-section	0.2-2.5mm ² [AWG 24-14]
Current output	1 x 4 ~ 20mA (0 ~ 20mA) Load < 500Ω (Active)
Interface	Modbus RTU (RS-485) / USB
Pulse output	Open Collector - max. 30V, 20mA
Relay contact	Max. rated load : 250VAC Max. peak current : 6A Max. rated load 230VAC : 250VA Max. breaking capacity DC1: 3/110/220 V : 3/0.35/0.2A Min. switching load: 500mW (10V / 5mA)
Data backup	Flash Memory

Transmitter (Field housing)

Power supply	110 / 230 VAC 60-50Hz (Optional 24VDC)
Power consumption	20 W / 24VA
Protection type	IP65 to EN60 52910.91
Ambient operating Temperature	-10 ~ +45 °C
Dimensions	258 x 237 x 174 mm (W x H x D)
Weight	Approx. 2.5kg
Interface	RS 485 (Modbus RTU) / USB
Cable screw connectors	3 x M20 (4.5 - 13mmØ)
Connection terminals cable cross-section	0.2 - 2.5mm ² [AWG 24-14]
Current output	3 x 4~20mA (0~20mA) Load < 500Ω (Active)
Pulse output	Open Collector - max. 30V, 20mA
Relay contact	Max. rated load : 250VAC Max. peak current : 6A Max. rated load 230VAC : 250VA Max. breaking capacity DC1: 3/110/220 V : 3/0.35/0.2A Min. switching load: 500mW (10V / 5mA)
Data backup	Flash Memory