

Compact . Reliable . Economical

Flow Indicator for Solids

Function

The sensor electronics units of **DYNAguardV-series** connected with process couplings of ESR.../m/... series helps to monitor the mass flow in solid material handling applications such as pneumatic transport lines, feeders or gravity chutes in a wide range of mass flow from g/h to t/h.

Flow problems with transports or the delivery of powders, dust, pellets, or granulates can be detected early with this device. This helps to prevent serious difficulties that can occur due to clogged piping, material loss, or other technical problems with the system.

The meter detects *moving* electrical charges that are produced, for example, through friction with other objects such as the pipe wall and then naturally adhere to the solids surface, solid lining will not be detected.

A multitude of sensor mechanics units makes process coupling very easy and allows cost effective solutions for almost any monitoring application - also in existing conveying systems. The advantage of this modular concept also appears in case of refit or exchange.

The device is not applicable for solids which build up an electrical conducting layer on the sensor through friction or deposition.

Technical Data

roommoar bata		
material	connector head	stainl. steel 1.4305 (AISI 303)
	screw-link	stainl. steel 1.4571 (AISI 304)
	sealing	NBR
ambient cond.	temperature	-20°C+70°C (-4°F158°F)
	degree of protection	IP 67 (EN 60529)
	EMC	according to EN 61326-1
output	DYNAguardV01	relay: max. 48 V AC/DC, 1A
		high/low switchable
	DYNAguardV02	transistor: galvanically isolated
		max. 31 V DC, 15 mA
		high/low switchable
	DYNAguardV20	4-20 mA, galvanically isolated
		load < 500 Ω
supply voltage	DYNAguardV01/V02	1731 V DC, max. 60 mA
	DYNAguardV20	1731 V DC, max. 90 mA
adjustment	sensitivity	1180.000
	damping	010 s (V01/02), 0180 s (V20)
	switchpoint	110 (DYNAguardV01/V02)
	zero set	4 mA (DYNAguardV20)

-Relay output-Transistor output-Current output



Characteristics

- electronic module without process coupling (please refer to ESR...)
- multitude of couplings are available
- variable use
- revolving screw-link to the process coupling
- measurement display with LED-bar conditions displayed by LED (relay / transistor output)
- stainless steel housing
- adjustable sensitivity
- adjustable switchpoint (limit switch)
- adjustable damping



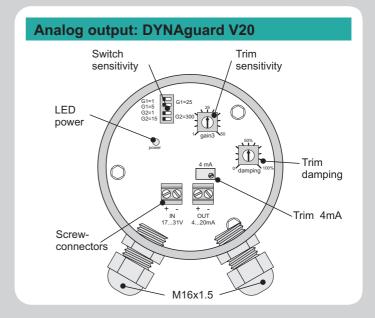
DYNA Instruments GmbH Tempowerkring 7, D-21079 Hamburg

Tel: (+49) 40 / 790 185 - 0 Fax: -18

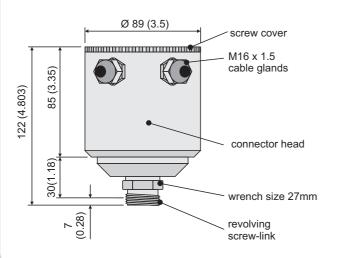
E-mail: info@dynainstruments.com Internet: www.dynainstruments.com

DYNAguard V-series

Switching output: DYNAguard V01 and V02 Switch Trim sensitivity sensitivity LED LED power relay LED-bar mass-flow Trim damping Trim limit Screwconnectors M16x1.5



Dimensions in mm (in)



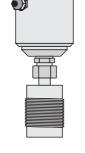
ESR_BR/m... flanged pipe

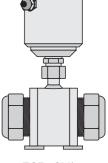
Process coupling (Extract)



DIN 24151

mounting between DIN-/ANSI-flanges





ESR_GM/m... screw coupling

ESR_CL/m... clamp coupling

ESR SV/m... for non metallic tubes / pipes

technische Änderungen vorbehalten

Ordering key

DYNAguard A/B

A: Output

V01: Relay V02: Transistor

V20: Analog output 4-20mA

B: Certificates

Ex-free area

Ex2: ATEX-Zone 2 and/or 22

(Ex) || 3G | EEx nA || T4 || 3D | IP67 T100°C

Contact your national or area sales and service office

VA Instruments

process coupling:

data sheet ESR.../m/...

please refer to

Instrumentation for Powder and Bulk Industries