

FLOW 33 Ex ia

Industrial flow meter

It is an induction flow meter with a possibility of full stainless steel design intended for technological processes in extractive industry where there are exacting requirements with explosion risk. Thanks to its unique stainless steel design, it is ideal for use where long service life in very harsh conditions of heavy industry is required. The meter is in the version with an evaluation unit with connection of an optional external display. The output of the flow meter is the pulse output with a variable pulse number or the 5 - 15 Hz output and the 4 ÷ 20mA current loop.

Main merits

- Classification for use in hazardous area: **I M1 Ex ia I Ma**
- Optional version with/without display
- Electrical connection using the water-proof Amphenol C016 connector
- Very firm structure made of high quality grade steel grade
- High abrasion resistance
- Variable volume pulse number
- Simple, trouble-free operation and maintenance

Flow meter specification

Diameter Nominal range	DN 15 ÷ DN 200
Maximum operating pressure [MPa]	Up to 4.0 MPa
Maximum operating temperature [°C]	Up to 40°C
Process connection	Sandwich
Construction	Compact
IP code	IP 65
Display	Without display – option to connect the MM 634 B/Ex - S display
Max. permitted ambient temperature	44°C
Outputs	Pulse or 5 ÷ 15Hz and current loop 4 ÷ 20 mA (passive) or 0,2 ÷ 1mA (active)
Pulse output constant	Arbitrary, max. 800 Hz with adjustable pulse width
Qmin/Qmax flow measurement range	1:60
Flow meter accuracy	Accuracy 0.5%; repeatability 0.2% (in basic range)
Classification	I M1 Ex ia I Ma

Power supply

Un	In	Pn
9 ÷ 24 V	134 ÷ 55 mA	1,2 ÷ 1,3W

Output signals

	Passive puls 5 ÷ 15 Hz	Passive current loop 4 ÷ 20mA	Active current loop 0,2 ÷ 1mA
Un	max. 24V	12 ÷ 24.00 V	max. 24V
In	max. 20 mA	20 mA	0,2 ÷ 1mA

