

Technical Data

MF200 for low flow of gas, liquid and steam

Material: aluminum alloy painted for case; body in stainless steel.

Indication: via magnetic coupling (no seals)

Scales: calibrated in l/h, m³/h, kg/h, %

Flow rate: water—0.4 l/h up to 4000 l/h
air—21 NL/h up to 120,000 NL/h

Connection types: BSP, NPT, flange type on request

Working Temperature:

Combine with electronic parts: -40°C~+150°C

Combine without electronic parts: -40°C~+180°C

Working Pressure: standard 100 kg/cm²; other options upon request

Connection size: 1/4" ~ 1 1/2"

Protection Class: IP66

Accuracy: ± 2% F.S (± 1.6% F.S option)



Approvals:

CE 2810

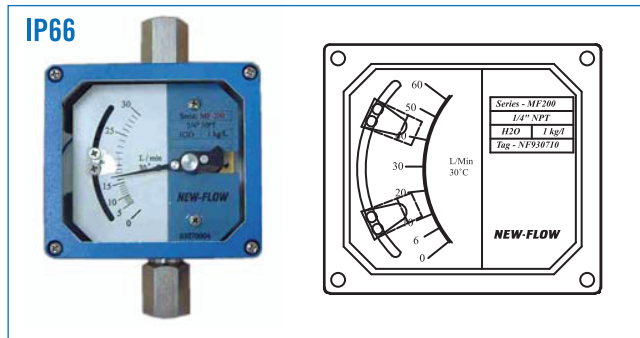
(PED: 2014/68/EU)

Patent No.

M275405

Alarm Option

MF200-C (Inductive Switch)



• Adjustable inductive alarm switch

Hysteresis: ±2% F.S (Dead Band)

Inductive sensors slotted type : 3.5mm slot switch
DC. voltage 2 wire's to DIN19234(NAMUR) for use in hazardous areas.

— **Power supply:** 8 Vdc(Ri.approx. 1kΩ)

— **Current consumption:** active face uncovered 3mA
active face covered 1mA

— **Ambient temp:** -25°C ~ +100°C

Isolated barriers output relay for inductive sensor :

- Rail mounting
- Control circuit EEx ia IIC
- EMC acc to NAMUR NE21
- Contact loading 250 VAC 2A SPDT 40 VDC 2A

1 adjustable alarm

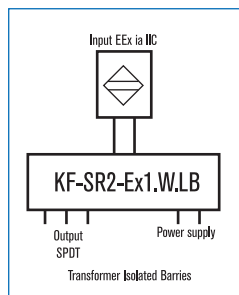
Contact setting point should be within 10% to 100% of F.S.

For 24VDC : KFD2-SR2-Ex1.W
115VAC : KFA5-SR2-Ex1.W
230VAC : KFA6-SR2-Ex1.W

2 adjustable alarm

The second setting point should be a gap 35% from first setting point.

For 24VDC : KFD2-SR2-Ex2.W
115VAC : KFA5-SR2-Ex2.W
230VAC : KFA6-SR2-Ex2.W



MF200-R (Reed Switch)



• Adjustable reed alarm switch

Alarm Switch: one or two setting points, form A bistable type (N.O. type) (†ON)

Hysteresis: ±15% F.S (Dead Band)

Switch Rating: AC 125V 0.5A / DC 100V 10W /
Max. DC 250V < 40mA

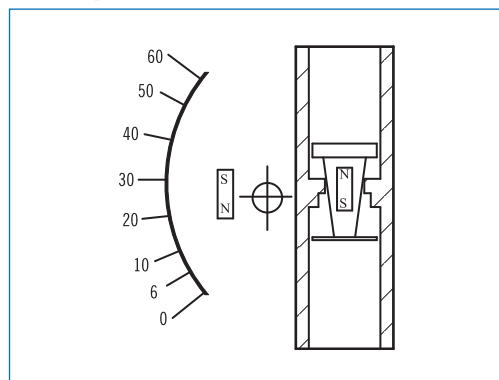
1 adjustable alarm

Contact setting point should be within 20% to 100% of F.S.

2 adjustable alarm

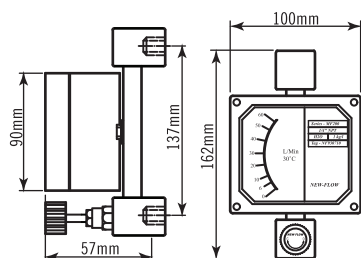
The second setting point should be a gap 20% from first setting point.

Principle



Dimensional Drawings

Model: MF200-B

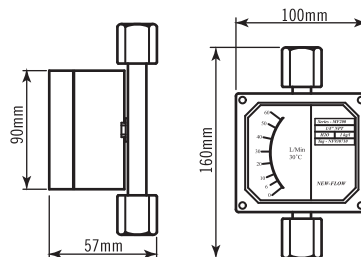


MF200-B Metal Tube Flow Meter
Basic Model:
Rear Connection + Needle Valve

NOTE.

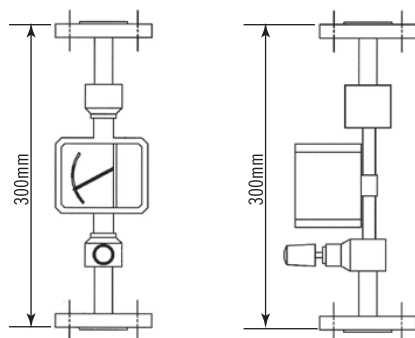
Max. range: 1000 L/H for Liquid; 30000 NL/H for Air
Connection size: 1/4"~3/4" BSP/NPT available

Model: MF200-S



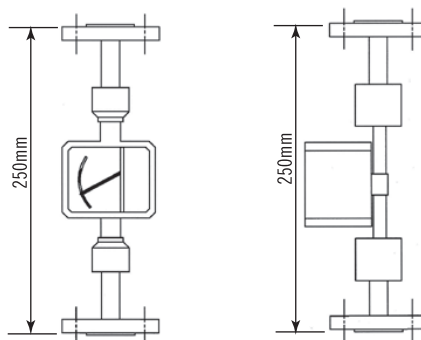
MF200-S Metal Tube Flow Meter
Basic Model:
Thread Connection

Model: MF200-R



MF200-R Metal Tube Flow Meter
Flange-Needle Model:
Flange Connection+Needle Valve

Model: MF200-T



MF200-T Metal Tube Flow Meter
Flange Model:
Flange Connection

Standard Scales

Tube	L/H 20°C Water	NL/H Air 0°C 1.013 bar	ΔPmm Water	BSP/NPT	Accuracy (NOTE 1.)
MF2001	0.4 ~ 4	21~210	340	1/4"	±6% F.S
MF2002	0.6 ~ 6	33~330	340	1/4"	±3% F.S
MF2003	1 ~ 10	48~480	340	1/4"	±2% F.S
MF2004	1.5 ~ 15	60~600	340	1/4"	±2% F.S
MF2005	2 ~ 20	72~720	340	1/4"	±2% F.S
MF2006	3 ~ 30	90~900	340	1/4"	±2% F.S
MF2007	5 ~ 50	120~1200	340	1/4"	±2% F.S
MF2008	6 ~ 60	180~1800	340	1/4"	±2% F.S
MF2009	10 ~ 100	300~3000	340	1/4"	±2% F.S
MF2010	15 ~ 150	500~5000	340	1/2"	±2% F.S
MF2011	25 ~ 250	750~7500	340	1/2"	±2% F.S
MF2012	45 ~ 450	1500~15000	340	1/2"	±2% F.S
MF2013	75 ~ 750	2000~20000	340	3/4"	±2% F.S
MF2014	100 ~ 1000	3000~30000	340	1"	±2% F.S
MF2015	150~1500	5000~50000	450	1-1/2"	±2% F.S
MF2016	200~2000	7500~75000	450	1-1/2"	±2% F.S
MF2017	300~3000	9000~90000	450	1-1/2"	±2% F.S
MF2018	350~3500	11000~110000	450	1-1/2"	±2% F.S
MF2019	400~4000	12000~120000	450	1-1/2"	±2% F.S

NOTE.

- The accuracy ±6% F.S for tube MF2001; The accuracy ±3% F.S for tube MF2002.
The accuracy ±2% F.S for tube MF2003~MF2019 and option ±1.6% F.S on request.
- Performance Technical Data are effective with date of issue and are subject to change without prior notice.

Installation

REAR FLOW DIRECTION

HORIZONTAL FLOW DIRECTION

UP FLOW DIRECTION

FALLING FLOW DIRECTION

SPECIAL NOTE

No minimum length requirement for straight pipe.

Ordering Information

MF200	Code	Connection		Code	Connection size	
	S	Thread connection		4B	1/4" BSP (Female)	
	R	Connection with needle valve		4N	1/4" NPT (Female)	
	T	Flange connection		2B	1/2" BSP (Female)	
	B	Rear connection with needle valve		2N	1/2" NPT (Female)	
		Code	Type	6B	3/4" BSP (Female)	
	G		Indicating only	6N	3/4" NPT (Female)	
	GS		Indicating + switch	1B	1" BSP (Female)	
		Code	Alarm	1N	1" NPT (Female)	
		0	Without alarm switch	15B	1½" BSP (Female)	
		C1	One inductive alarm switch	15N	1½" NPT (Female)	
		C2	Two inductive alarm switches	20B	2" BSP (Female)	
		R1	One reed switch	20N	2" NPT (Female)	
		R2	Two reed switches	2F	½" Flange	
		Code	Body material	6F	¾" Flange	
	A		SS316	10F	1" Flange	
		Code	Float & Wetted part material	15F	1 ½" Flange	
		A	SS316		Code	Protection Class
					IP	IP66
					Code	Fluid
					G	Gas
					O	Oil
					L	Liquid
					S	Steam
					Code	Range
					S	Standard range
						Please directly fill out the flow range in the order code.
					☞ Mark Request : If stamp the CE ₂₈₁₀ mark is necessary, please consult with the manufacturer.	

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MF200								+					Complete ordering code
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NOTE:

1. Custom-made flow range and flange size upon request.
2. Please fill in the ordering information and service condition,

Special instruction, if any:

Service Condition:

Fluid name: _____
 Sp. Gr. (density): _____
 Viscosity: _____
 Press.: _____
 Temp.: _____
 Full scale: _____