

METAL TUBE FLOW METER MF200

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

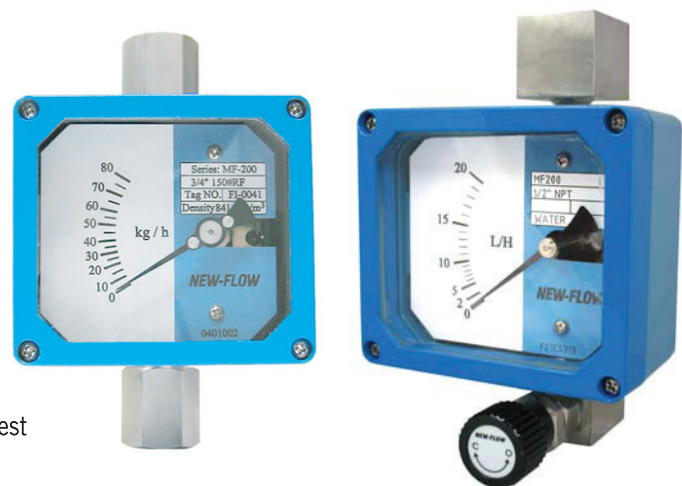
Combine without electronic parts: -40°C~+180°C

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:

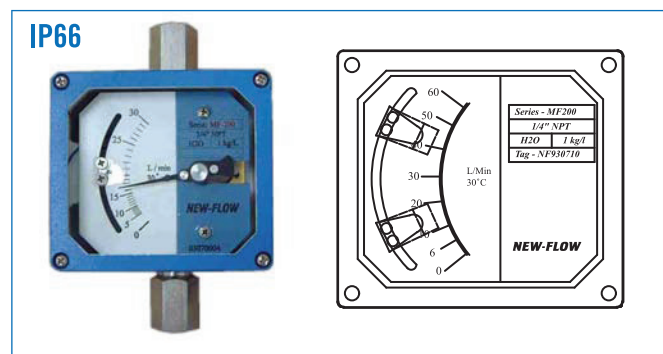


Patent No.

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

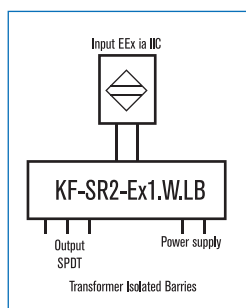
Contact setting point should be within 10% to 100% of F.S.

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

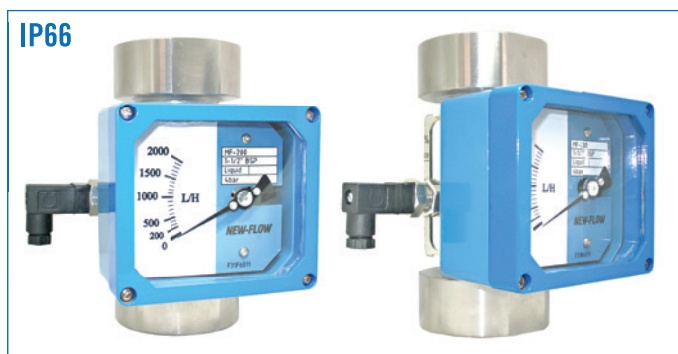
2 adjustable alarm

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)

Hysteresis: ±15% F.S (Dead Band)

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

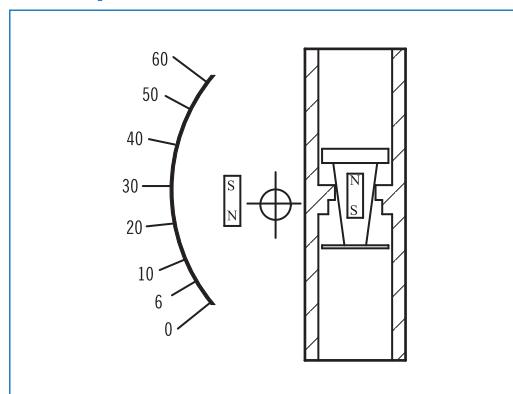
1 adjustable alarm

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

2 adjustable alarm

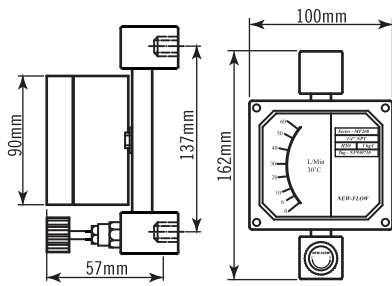
The second setting point should be a gap 20% from first setting point.

Principle



Dimensional Drawings

Model: MF200-B

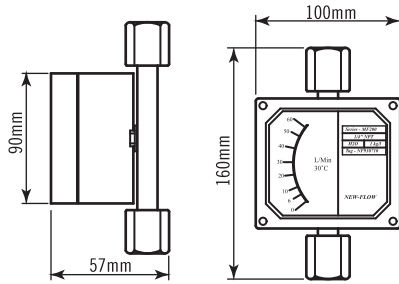


MF200-B Metal Tube Flow Meter
Basic Model:
Rear Connection + Needle Valve

NOTE.

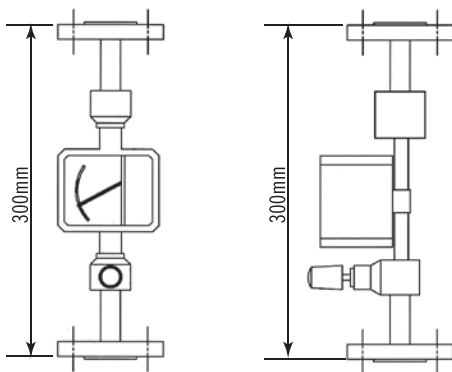
Max. range: 1000 L/H for Liquid; 30000 NL/H for Air
Connection size: 1/4"~3/4" BSP/NPT available

Model: MF200-S



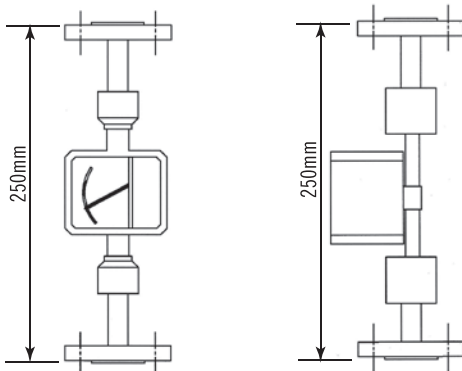
MF200-S Metal Tube Flow Meter
Basic Model:
Thread Connection

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

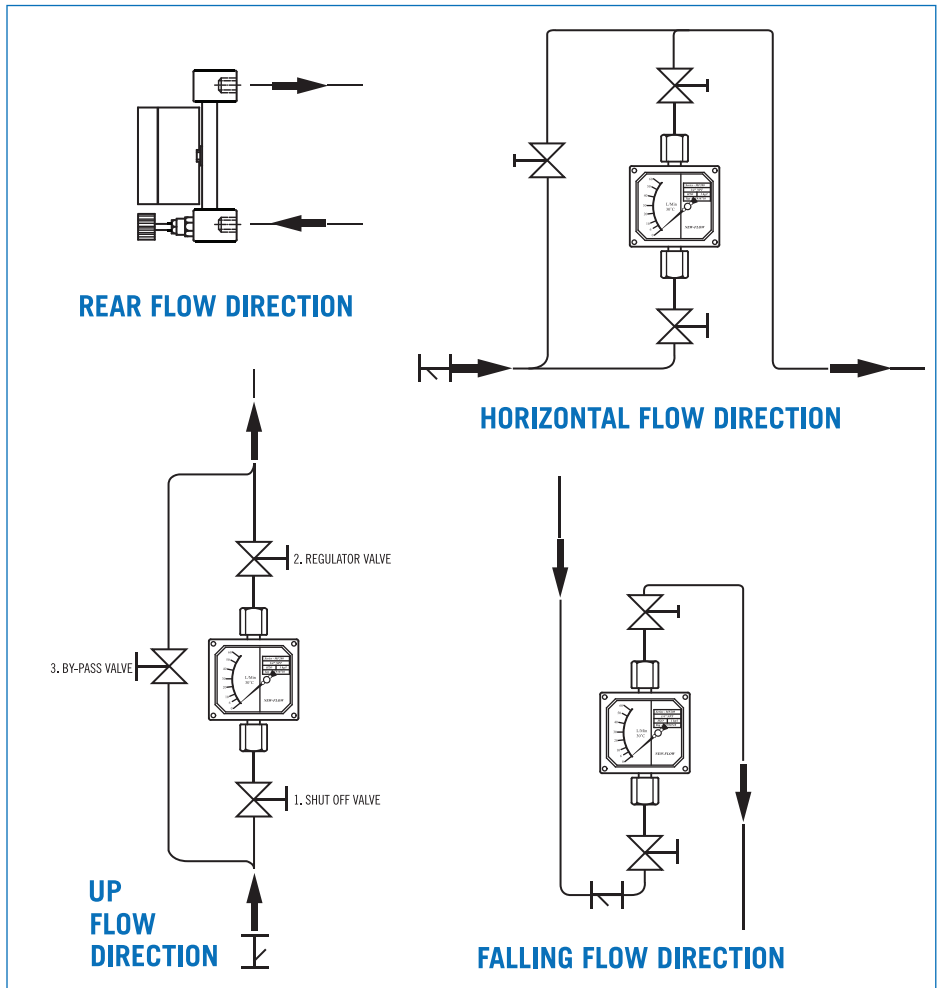
Standard Scales

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



SPECIAL NOTE

No minimum length requirement for straight pipe.

