

METAL TUBE FLOW METER

AI.MF200



CE

TECHNICAL DATA

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

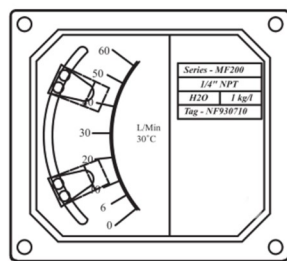
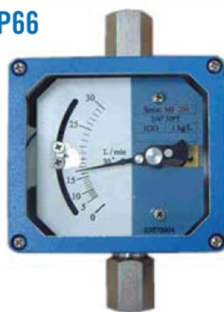
Connection size: 1/4" ~ 1 1/2"

Protection Class: IP66

Accuracy: ± 2% F.S (±1.6% F.S option)

ALARM OPTION

IP66



• 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 coved 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

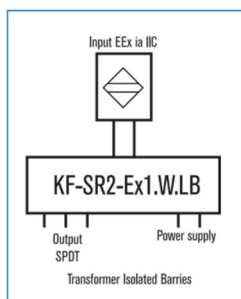
2 adjustable alarm

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



IP66



• Adjustable reed alarm switch

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

Hysteresis: ±15% F.S (Dead Band)

Switch Rating: AC 125V 0.5A / DC 100V 10W /

Max. DC 250V < 40mA

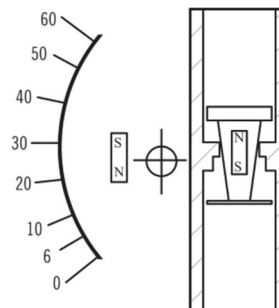
1 adjustable alarm

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

2 adjustable alarm

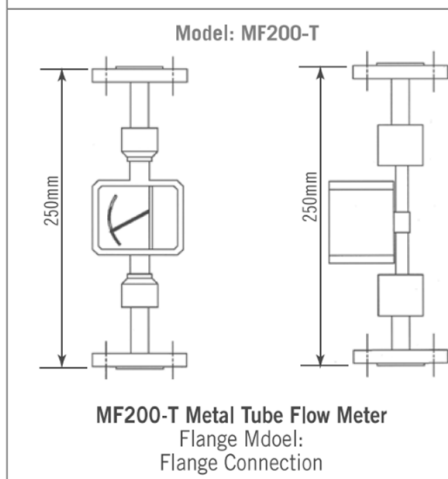
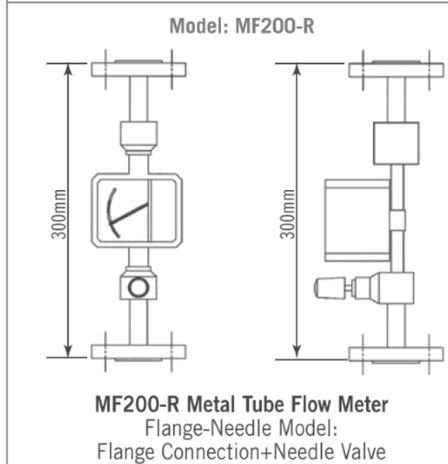
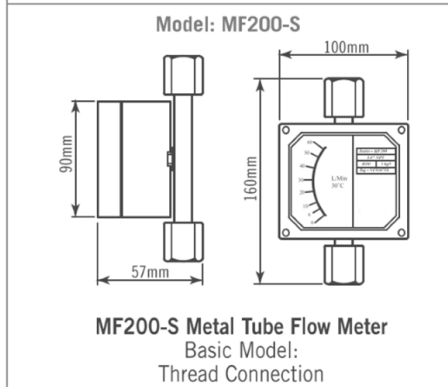
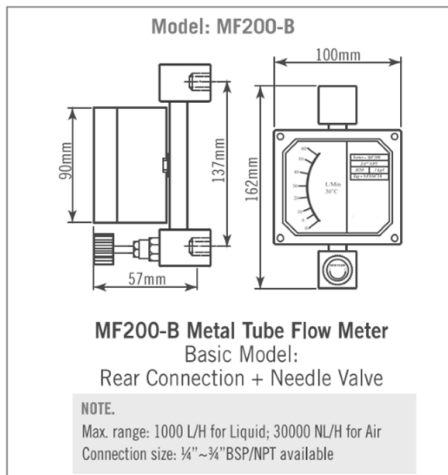
The second setting point should be a gap 20% from first setting
point.

Principle



INFORMATIONS

Dimensional Drawings



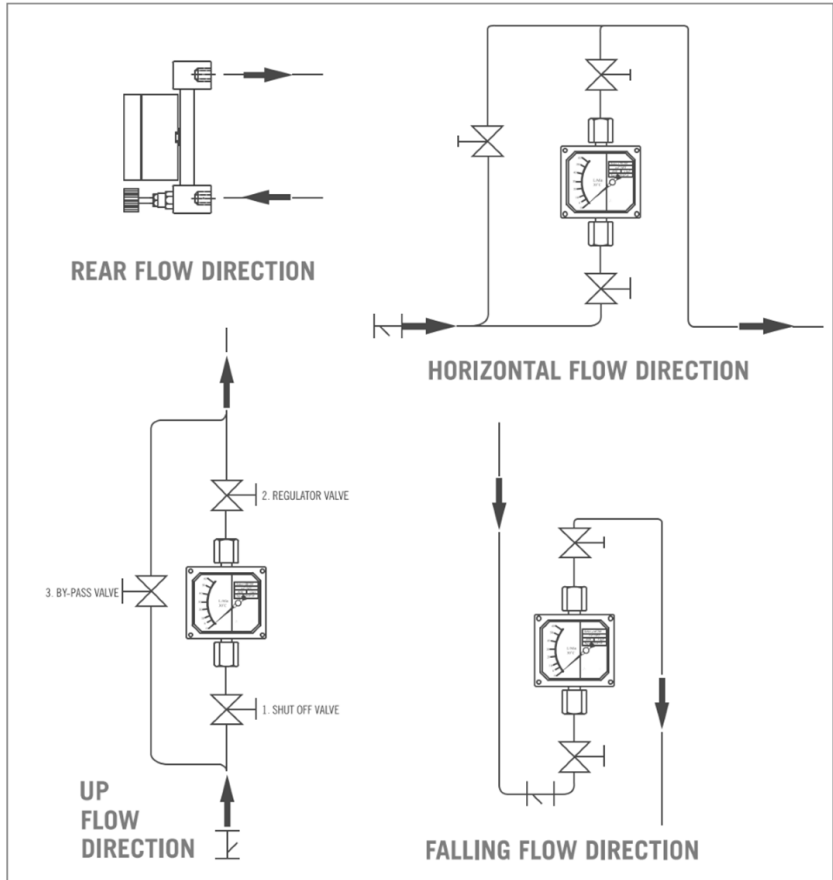
Standard Scales

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.

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	1 1/2" BSP (Female)
	C1	One inductive alarm switch	15N	1 1/2" NPT (Female)
	C2	Two inductive alarm switches	20B	2" BSP (Female)
	R1	One reed switch	20N	2" NPT (Female)
	R2	Two reed switches	2F	1/2" Flange
		Code Body material	6F	3/4" Flange
	A	SS316	10F	1" Flange
		Code Float & Wetted part material	15F	1 1/2" Flange
	A	SS316		Code Protection Class
		Code Connection rating	IP	IP66
	0	Thread connection		Code Fluid
	5	JIS 5K	G	Gas
	10	JIS 10K	O	Oil
	20	JIS 20K	L	Liquid
	15	ANSI 150#	S	Steam
	30	ANSI 300#		Code Range
	40	ANSI 400#	S	Standard range
	60	ANSI 600#		Please directly fill out the flow range in the order code.
	T	Other: _____		

CE Mark Request :
 If stamp the CE2810 mark is necessary, please consult with the manufacturer.

MF200									+					Complete ordering code
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Company with
Certificate of Quality
System ISO 9001:2015
Cert n°38785/19/S