METAL TUBE FLOW METER

IOTAFLOW
SYSTEMS PVT. LTD



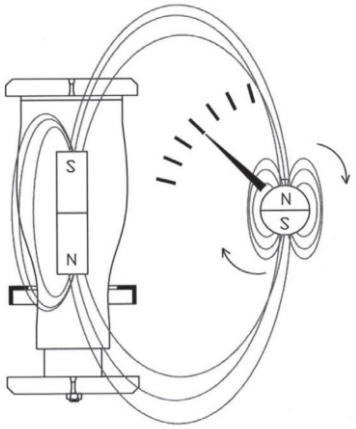
Technical Data

Metal Tube Flow Meter for High flows of gases, liquid and steam

Material: Aluminum alloy case with paint.
Body wetted parts: in SS316, PTFE lined, plastic.
Others on request.
Indication via magnetic coupling (no sealed)
Scales calibrated: in l/h, m³/h , kg/h, %, etc.
Flow rates for:
- Water/Liquid : 30 l/h up to 150,000 l/h.
  (special ranges on request)
– Air : 0.1 N m³/h up to 450 N m³/h.
  (special ranges on request)

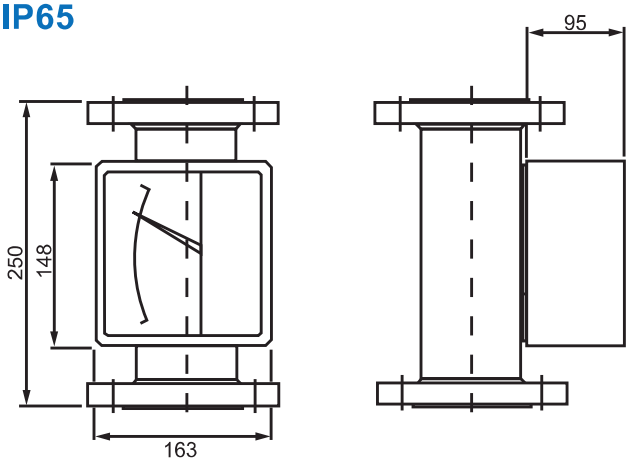
Connection types:
– flange type, trip clamp & sanitary
  (others on request)
Connection size: 1/2" ~ 6"
Mounting Length: 250 mm, standard;
350 mm, explosion proof
Temperature: 200°C(300°C option)
Housing protection: IP65/ IP67 or Expflosfion Proof, CLASS I, GROUPS B, C &D; CLASS II, GROUPS E, F, & G; NEMA 4, 7, 9
Accuracy: ±2% FS,(±1.6 F.S Option)
Max pressure: 40 kg/cm² (standard)
(Option: up to 100 kg/cm²)
Option: Switch available (Micro Switch : 3A/250VAC, 5A/30VDC, 0.4/125VDC), Adjustable inductive alarm switch available, 4~20 mA two wires analog output available

Principle

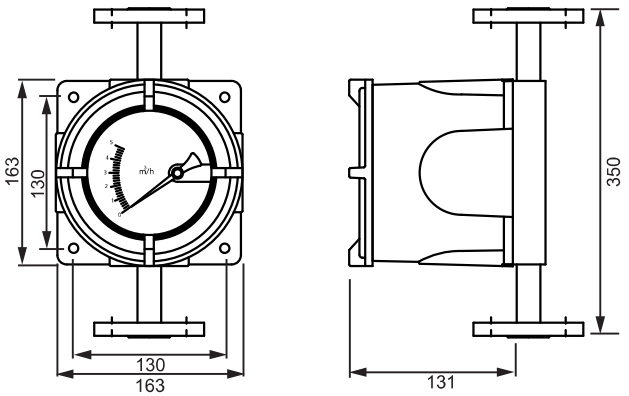


Dimensions

IP65



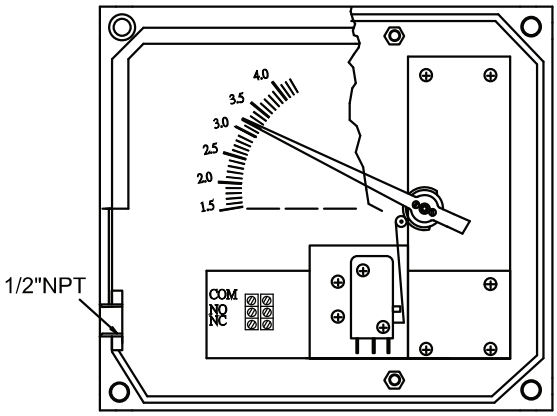
Explosion Proof



unit: mm

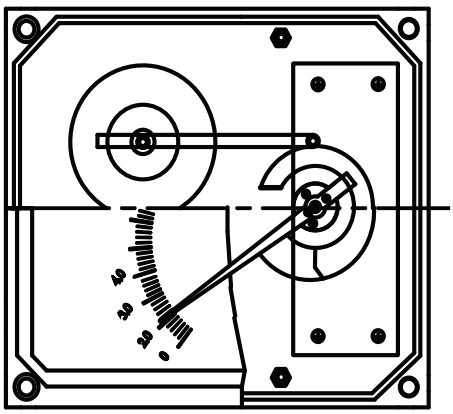
Alarm / Analog output

MICRO SWITCH



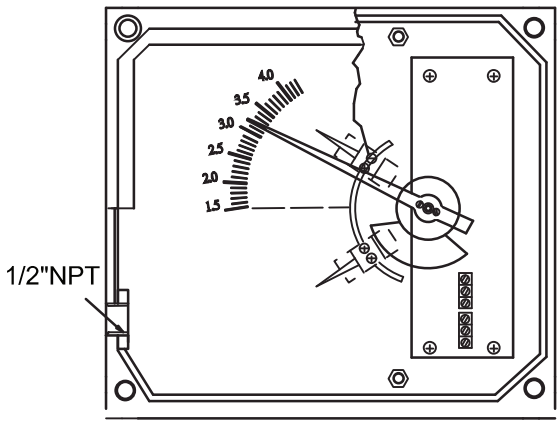
Adjustable Micro Switch, Series BF-300/GS-M
1 or 2 adjustable alarm contact
Load: 3A/250VAC
Temperature: -25°C ~ +100°C (AMB)
Hysteresis: ± 10% of full scale

ANALOG OUTPUT



Electric Transmitter BF-300/GT
Analog output available : 4~20 mA (2wire)
Power Supplier: 24Vdc/220 VAC 50H
Temperature: -25°C ~ +100°C (AMB)

INDUCTIVE SWITCH

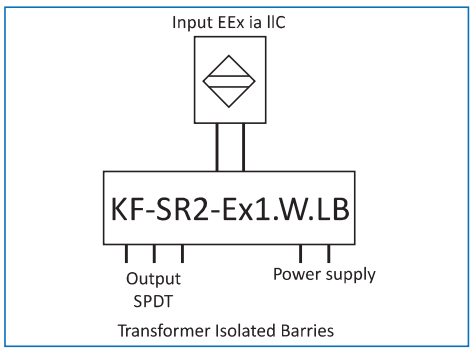


Adjustable inductive alarm switch
Inductive sensors slotted type :
3.5mm slot switch
DC. voltage 2 wire's to D1N19234(NANUR) for use in hazardous areas.
— Power supply: 8 Vdc(Ri.approx. 1k□)
— Current consumption : Active face uncoved 3mA
Active face coved 1mA
— Ambient temp: -25°C ~ +100°C

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

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

Isolated barriers output relay for inductive sensor :
— Rail mounting
— Control circuit EEx ia IIC
— EMC acc to NAMUR NE21
— Contact loading 253 VAC 2A SPDT 40 VDC 2A



Standard Scales

Tube	L/H 20°C Water	NM^3/H Air 20°C 1.013bar	PmmWater	Connection
IO3001	4 ~ 30	0.1 ~ 1	≤750	1/2"
IO3002	4 ~ 40	0.13 ~ 1.3	≤750	1/2"
IO3003	5.5 ~ 55	0.17 ~ 1.7	≤750	1/2"
IO3004	8 ~ 80	0.2 ~ 2	≤750	1/2"
IO3005	16 ~ 160	0.5 ~ 5	≤750	1/2"
IO3006	18 ~ 180	0.6 ~ 6	≤750	1/2"
IO3007	30 ~ 300	1 ~ 10	≤750	1/2"
IO3008	50 ~ 500	1.5 ~ 15	≤750	1/2"
IO3009	60 ~ 600	1.8 ~ 18	≤750	1/2"
IO3010	70 ~ 700	2 ~ 20	≤750	1/2"
IO3011	100 ~ 1000	3 ~ 30	≤750	3/4"
IO3012	120 ~ 1200	4 ~ 40	≤750	1"
IO3013	160 ~ 1600	5 ~ 50	≤700	1"
IO3014	200 ~ 2000	6 ~ 60	≤700	1"
IO3015	240 ~ 2400	7 ~ 70	≤700	1"
IO3016	280 ~ 2800	8.5 ~ 85	≤700	1"
IO3017	320 ~ 3200	9 ~ 90	≤700	1"
IO3018	350 ~ 3500	10 ~ 100	≤700	1"
IO3019	500 ~ 5000	14 ~ 140	≤650	1½"
IO3020	600 ~ 6000	15 ~ 150	≤650	1½"
IO3021	700 ~ 7000	20 ~ 200	≤650	1½"
IO3022	800 ~ 8000	24 ~ 240	≤650	1½"
IO3023	1000 ~ 10000	30 ~ 300	≤650	2"
IO3024	1200 ~ 12000	35 ~350	≤650	2"
IO3025	1400 ~ 14000	40 ~ 400	≤650	2"
IO3026	1500 ~ 15000	45 ~ 450	≤1000	2"
IO3027	1800 ~ 18000	60 ~ 600	≤800	2½"
IO3028	2000 ~ 20000	75 ~ 750	≤800	2½"
IO3029	2300 ~ 23000	90 ~ 900	≤850	3"
IO3030	2500 ~ 25000	120 ~ 1200	≤1000	3"
IO3031	2800 ~ 28000	---------	≤1100	3"
IO3032	3000 ~ 30000	---------	≤1200	3"
IO3033	4000 ~ 40000	---------	≤1000	4"
IO3034	5000 ~ 50000	---------	≤1000	4"
IO3035	8000 ~ 80000	---------	≤1200	5"
IO3036	10000 ~ 100000	---------	≤1500	6"

Note: Maximum Flow Range: Up to 150000 LPH for liquid in special case

NOTE

Performance Technical Data are effective with date of issue and are subject to change without prior notice.

IOTAFLOW
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2015	IOTAFLOW make Metal Tube Flow Meters	Data Sheet Ver 1.0

	MT Flowmeter	XX	X	X	X	X	X	X	X	X	X	X	X
MT-Size	DN 8	8											
	DN 15	15											
	DN 20	20											
	DN 25	25											
	DN 32	32											
	DN 40	40											
	DN 50	50											
	DN 65	65											
	DN 80	80											
	DN 100	100											
	DN 125	125											
	DN 150	150											
	DN 200	200											
Body Material	MT SS 304		S										
	MT SS 316		F										
	MT SS 316L		T										
Float / Piston Material	MTF SS 316			F									
	MTF SS 316L			T									
Service	MT Veg Oil				V								
	MT LPG				P								
	MT Solvent				S								
	MT Ammonia				I								
	MT CO2				L								
	MT Oil				O								
	MT Water				W								
	MT Air				A								
Pressure Rating	MT 6 Bar					B							
	MT 10 Bar					N							
	MT 16 Bar					P							
	MT 25 Bar					L							
	MT 40 Bar					O							
	MT 60 Bar					M							
	MT 100 Bar					H							
Temperature	MT 100						N						
	MT 200						M						
	MT 300						H						
End Connection	MT Screwed							S					
	MT Flange PN10							PN10					
	MT Flange PN16							PN16					
	MT Flange PN25							PN25					
	MT Flange PN40							PN40					
	MT Flange #300							#300					
	MT Flange #150							#150					
	MT TC End (SS 316)							T					
	MT Wafer End							W					
Power Supply	MT Skip								O				
	MT 24VDC								L				
	MT 220 VAC								H				
Output	MT No Output									O			
	MT Double Relay									D			
	MT Single Relay									S			
	MT Flow Volume 4-20									4-20mA			
Flow Direction	MT Bottom To Top										BT		
	MT Right To Left										RL		
	MT Left To Right										LR		
Remote Display	MTR Skip											O	
	FI 106											P	
Protection Class	MT IP65												1

Flow Range	
	FR 0.4 ~ 2 M3/hour — 2 m3/hour
	FR 0.6 ~ 3 M3/hour — 3 M3/hour
	FR 1 ~ 5 M3/hour — 5 M3/hour
	FR 2 ~ 10 M3/hour — 10 M3/hour
	FR 4 ~ 20 M3/hour — 20 M3/hour
	FR 6 ~ 30 M3/hour — 30 M3/hour
	FR 8 ~ 40 M3/hour — 40 M3/hour
	FR 10 ~ 50 M3/hour — 50 M3/hour
	FR 12 ~ 60 M3/hour — 60 M3/hour
	FR 16 ~ 80 M3/hour — 80 M3/hour
	FR 20 ~ 100 M3/hour — 100 M3/hour
	FR 26 ~ 130 M3/hour — 130 M3/hour
	FR 36 ~ 180 M3/hour — 180 M3/hour
	FR 40 ~ 200 M3/hour — 200 M3/hour

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