

Influx specialise in the design and manufacture of flowmeters, fluid instruments and accessories to suit processes requiring the measurement and control of liquids and gases.



## Design

The standard products included in this guide will fit a wide range of applications. We are also able to design and manufacture solutions to fit more specific application needs. In this instance please contact us.

## Service

ISO 9001:2008 accredited, we are committed to providing customers with the highest levels of service and meeting delivery expectations at all times.



## Innovation

Influx engage in continuous research and development to ensure that new and innovative products are available to meet changing customer needs.

The standard product index below shows the flow measurement ranges in litres/min for air and water at standard operating conditions (1 atm 20°C), standard connection sizes and options available.

If using fluids at other operating conditions or for fluids other than air or water, the sizing data and unit conversion factors on pages 20 to 21 provide calculations for determining the equivalent air or water flows.

## Product Index

Flowmeter type	Connection type	Suitable pipe sizes (mm)	Flow Ranges (L/min)				Direct reading	4-20 mA	Alarm Setpoint	Page
			Water		Air					
			min	max	min	max				
Uniflux	¼" BSP	3-10	0.005	4.4	0.01	100	Y	0	0	4
Reflux	⅜"-½" BSP	5-12	0.1	12	0.5	220	Y	Y	0	6
Fluxline	½"-1" BSP	8-25	0.005	40	0.01	600	Y	N	0	8
LPL	⅜"-1" BSP	5-25	0.005	100	0.01	2000	Y	0	0	10
Flow Tubes	¼"-½" BSP	3-10	0.005	4.4	0.01	100	Y	N	0	12
FloTrak	¾"-2"	10-50	0.1	415	2	11670	Y	0	0	14
Deltaflux	1"-10"	25-250	50	16500	350	115000	Y	0	0	16

## Accessories and Technical Data

		Y=Yes	N=No	O=Optional	
Flowsense	Infra-red flow alarm system				18
Finetrim	Fine and ultra fine needle valves				19
Gas Flowmeter sizing information					20
Liquid Flowmeter sizing information					21
Unit conversion charts					21
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Flowmeters for automatic sprinkler systems					23



range of materials with optional fine or ultrafine needle control valves.

The **BENCH STAND** used with angled connections is ideal for use in laboratories and other testing applications where panel mounting is not practical.

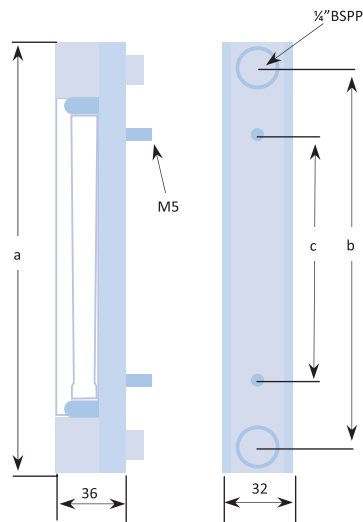
**FLOWSENSE** infra-red flow alarms can be factory mounted or retro-fitted. Details on page 18.

Flow tubes are available in a wide range of standard scales to suit many common fluids and operating conditions.

**CUSTOMISED SCALES** are also provided on request, to meet specific fluid requirements or varied conditions of use.

Flow tubes for use in **ANAESTHETIC** equipment are available for medical gases.

- Direct reading
- Alarm options
- Customised scales
- High repeatability
- Angled or straight connections
- Low pressure drop
- Suitable for panel mounting



**Length** ← S VI1 B 5  
 C=Compact  
 S=Standard  
 L= Long

**Style** ←  
 A=Angled  
 S=Straight  
 VI1=Integral Valved Ultra Fine  
 VI2=Integral Valved Fine  
 VC1=Cartridge Valved Ultra Fine  
 VC2=Cartridge Valved Fine

**Connections** ←  
 S=Stainless Steel  
 B=Nickel Plated Brass

**Frame Size** ←  
 5,9 or 15

**AI 05**

**Scale Code**  
 Obtain scale code from tables on pages 12 & 13

If the range you require is not listed, a customised scale can be produced. Please supply: Nominal flow rate or preferred range, fluid properties (e.g. density & viscosity), units, working pressure and temperature.

Obtain tube sizes from tables on pages 12 & 13

mm	Compact	Standard	Long
a	133	210	250
b	108	184	226

Specification	
Gas Range	5 cm <sup>3</sup> /min – 120 L/min (air equiv.)
Liquid Range	2 cm <sup>3</sup> /min – 4.4 L/min (water equiv.)
Scale Length	30/100/140 mm
Accuracy Class	4 / 2.5 / 2.5 VDI / VDE
Repeatability	Better than 0.5%
Temperature	-15°C to 120°C
Connections	1/4" BSP female, stainless steel or nickel plated brass
Seals	Viton (PTFE valve seals)
Flow Tube	Borosilicate glass

# INFLUX REFLUX FLOW TRANSMITTERS

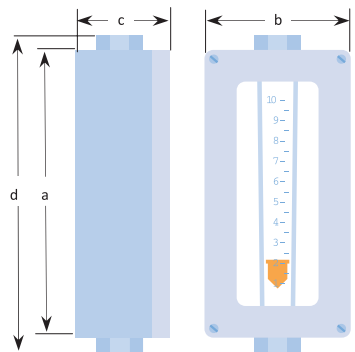
Rometec srl - [www.rometec.it](http://www.rometec.it) - [info@rometec.it](mailto:info@rometec.it) - Rometec srl - [www.rometec.it](http://www.rometec.it) - [info@rometec.it](mailto:info@rometec.it)

Housing Type	Air (20°C, 1013mbar)	Float Material	Scale Code	Housing Type	Water (20°C)	Float Material	Scale Code
3/8" RH	0.6 to 5 L/min	Dural	AI 48	3/8" RH	6 to 70 cm³/min	PTFE	WA 48
3/8" RH	2 to 10 L/min	Dural	AI 40	3/8" RH	30 to 250 cm³/min	PEEK	WA 50
3/8" RH	2.5 to 13 L/min	St. Steel	AI 41	3/8" RH	40 to 500 cm³/min	St. Steel	WA 41
3/8" RH	3 to 22 L/min	Dural	AI 42	3/8" RH	100 to 800 cm³/min	St. Steel	WA 42
3/8" RH	5 to 33 L/min	St. Steel	AI 43	3/8" RH	0.4 to 3 L/min	St. Steel	WA 43
3/8" RH	12 to 80 L/min	Dural	AI 44	3/8" RH	0.5 to 3.5 L/min	St. Steel	WA 44
1/2" MH	20 to 150 L/min	Dural	AI 46	1/2" MH	1 to 8 L/min	St. Steel	WA 46
1/2" MH	30 to 220 L/min	St. Steel	AI 47	1/2" MH	1.5 to 12 L/min	St. Steel	WA 47
1" MH	60 to 400 L/min	Dural	AI 81	1" MH	3 to 24 L/min	St. Steel	WA 81
1" MH	80 to 600 L/min	St. Steel	AI 82	1" MH	4 to 40 L/min	St. Steel	WA 82

Reflux flow transmitters can be ranged to suit higher flowrates than those shown. Please supply details of your application.

Alarms may also be fitted to these meters, please enquire.

For indication only, please refer to the LPL Series on pages 10 –11.



mm	3/8" RH	1/2" MH	1" MH
a	175	220	220
b	80	125	125
c	55	80	80
d	55	80	80

RF 1/2" MH AI 46

Reflux

Housing

3/8" RH

1/2" MH

1" MH

Scale Code

Obtain scale code from tables above

If the range you require is not listed, a customised scale can be produced. Please supply: Nominal flow rate or preferred range, fluid properties (e.g. density & viscosity), units, working pressure and temperature.

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# REFLUX FLOW TRANSMITTERS

- 4-20 mA transmission
- Local indication
- Gases and liquids
- Approved for explosive atmospheres
- Fast response
- High repeatability
- Customised calibration
- Low pressure drop
- Suitable for panel mounting



Specification	
Gas Range	0.6 - 600 L/min (air equiv.)
Liquid Range	6 cm³/min - 40 L/min (water equiv.)
Output	2-wire, 4 to 20mA loop powered
Supply	8 – 30 VDC
Approvals	EEx ia IIC T6 ATEX II 2GD T70°C IP65
Accuracy	±2% FSD
Repeatability	±0.5% of Flow
Temperature	-15°C to 60°C
Pressure	20 bar max. (non shock)
Pressure Drop	Gases: 6 mbar max. Liquids: 25 mbar max.
Connections	3/8", 1/2" or 1" BSP female, Stainless steel
Seals	Viton or nitrile on sizes 23 and 30
Flow Tube	Borosilicate glass



our glass and acrylic flow tubes

The **SAFETY HOUSED (SH)** frame, shown here, is used for glass tubes. A polycarbonate cover completely surrounds the glass, protecting it from accidental damage and also shielding the user should breakage occur.

**CUSTOMISED SCALES** are also provided on request, to meet specific fluid requirements or varied conditions of use.

	Air	Scale Code	Tube Size	Float Material		Water	Scale Code	Tube Size	Float Material
	L/min	10-20	AI 28	23		Dural	L/min	0.6-6	WA 28
	30-200	AI 29	30	St. Steel		1-10	WA 29	30	St. Steel
	40-360	AI 30		Dural		2-20	WA 30		St. Steel
	60-600	AI 31		St. Steel		4-40	WA 31		St. Steel

**Housing**  
SH=Safety Housed  
OF=Open Frame

**Size**  
SH ½" = 5, 9, 15 Glass  
OF ½" = 23 Plastic  
OF 1" = 30 Plastic

**Connections**  
S=Stainless Steel  
B=Nickel Plated Brass (½" only)

**Scale Code**  
Obtain scale code from tables on pages 12 & 13 and above.

If the range you require is not listed, a customised scale can be produced. Please supply: Nominal flow rate or preferred range, fluid properties (e.g. density & viscosity), units, working pressure and temperature.

For sizes 5, 9 and 15 obtain tube sizes from the tables on pages 12 & 13. For sizes 23 and 30 see tables above.

mm	½"	1"
a	220	253
b	45	55

**OF ½" 23 S AI 28**

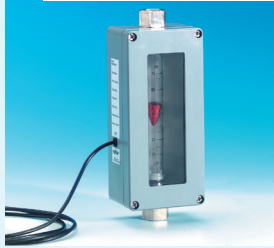
- Direct reading
- Alarm options
- Plastic or glass tubes
- Customised scales
- Safety housing for glass flow tubes
- Low pressure drop
- Suitable for panel mounting



Specification	
Gas Range	5 cm <sup>3</sup> /min - 600 L/min (air equiv.)
Liquid Range	2 cm <sup>3</sup> /min - 40 L/min (water equiv.)
Scale Length	100 mm or 140 mm
Accuracy	Glass: 2.5 VDI / VDE Acrylic: 5% FSD
Temperature	Glass: -15°C to 120°C Acrylic: 60°C max.
Pressure (non shock)	Glass: 10 bar max. Acrylic: 8 bar max. at 20°C 3 bar max. at 60°C
Connections	½" or 1" BSPF 316 Stainless Steel ½" BSPF Brass
Seals	Sizes 5, 9, 15 :Viton Sizes 23, 30 : Nitrile
Float	Stainless steel, anodised aluminium or PEEK

# INFLUX LPL SERIES HOUSED FLOWMETER

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acrylic flow tubes. These include Size 40, which combine higher flowrates with a very low pressure drop.

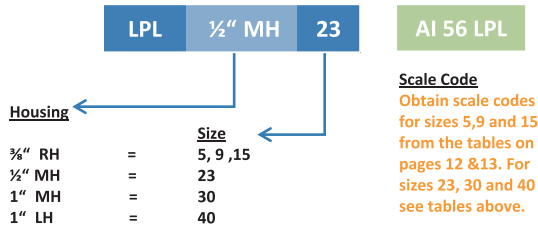
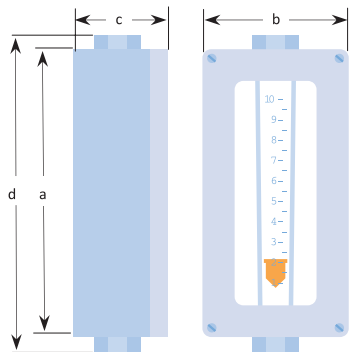
REFLUX 4 to 20 mA OUTPUT versions of LPL Series flowmeters are available in many standard ranges, many of which are shown on page 6. If the range you require is not shown, please enquire.

## Glass Tubes for LPL (MH) Flowmeters

	Air	Water (H <sub>2</sub> O)	Scale Code	Tube Size
L/ min	10-120	0.5-7	55LPL	23
	30-230	1.5-12	56LPL	
	40-360	2-20	98LPL	30
	60-600	4-40	99LPL	
	AI	WA		

## Acrylic Tubes for LPL (LH) Flowmeters

	Air	Water (H <sub>2</sub> O)	Scale Code	Tube Size
L/ min	100-1000	5-60	57LPL	40
	300-2000	10-100	58LPL	
	AI	WA		



Please enquire for details of alarm options.

For 4 to 20mA output versions go to page 6.

mm	3/8" RH	1/2" MH	1" MH	1" LH
a	175	220	220	355
b	80	125	125	125
c	56	80	80	80

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# LPL SERIES HOUSED FLOWMETER

- Direct reading
- Gases and liquids
- Low pressure drop
- High repeatability
- Customised calibration
- Rugged enclosure
- Suitable for panel mounting



Specification	
Gas Range	5 cm <sup>3</sup> /min - 2000 L/min (air equiv.)
Liquid Range	2 cm <sup>3</sup> /min - 100 L/min (water equiv.)
Scale Length	100 mm, 140 mm, 200 mm
Accuracy	2.5 VDI/VDE
Temperature	Glass: 120°C max. Acrylic: 60°C max.
Pressure (non shock)	Glass: 20 bar max. Acrylic: 8 bar max. at 20°C 3 bar max. at 60°C
Pressure Drop	Gas: 6 mbar max. Liquid: 25 mbar max.
Connections	3/8", 1/2" or 1" BSPF 316 Stainless Steel
Seals	Sizes 5, 9, 15 : Viton Sizes 23, 30, 40 : Nitrile
Flow Tube	Borosilicate glass or acrylic
Float	Stainless steel, anodised aluminium or PEEK

**Standard Glass Tubes: for Uniflux (1/4"), LPL (RH) or Fluxline (1/2") Flowmeters**

	Air	Argon (AR)	Butane (C <sub>4</sub> H <sub>10</sub> )	Carbon Dioxide (CO <sub>2</sub> )	Carbon Monoxide (CO)	Cracked Ammonia (N:3H)	Helium (He)	Hydrogen (H <sub>2</sub> )	Methane (CH <sub>4</sub> )	Nitrogen (N <sub>2</sub> )	Oxygen (O <sub>2</sub> )	Propane (C <sub>3</sub> H <sub>8</sub> )	Scale Code	Float Material	Tube Size	Floats are St. Steel	Water (H <sub>2</sub> O)	Scale Code
cm <sup>3</sup> /min	5-100	5-80	20-130	10-100	10-100	10-120	5-100	20-250	10-150	5-100	5-90	10-140	02	Dural	5	-	-	-
	20-250	20-200	50-290	20-250	20-270	30-360	20-280	40-600	40-360	20-250	20-220	40-300	03	Dural			1-10	08
	60-600	60-560	100-700	60-600	50-700	-	50-800	-	0.05-0.9	60-600	40-600	100-700	38	Dural			2-25	49
	50-750	40-660	100-800	50-750	50-800	-	0.05-1.1	0.1-2	0.1-1.1	50-800	50-700	100-850	04	Dural			4-60	01
L/min	0.1-1.2	0.1-1	0.1-1.1	0.1-1.1	0.1-1.2	0.1-1.8	0.1-1.8	0.2-3.4	0.1-1.7	0.1-1.2	0.1-1.1	0.1-1.2	05	St. Steel	9	-	-	-
	0.2-2	0.2-1.7	0.4-2	0.2-1.8	0.2-2	0.3-3	0.2-3	0.4-5.6	0.4-2.8	0.2-2	0.2-1.8	0.3-2.2	36	Dural			-	-
	0.3-3.4	0.2-2.9	0.5-3	0.3-3	0.3-3.5	0.4-5.8	0.3-5.8	0.5-10	0.4-4.8	0.3-3.5	0.3-3.2	0.3-3.4	06	PEEK			30-280	02
	0.6-5	0.4-4	0.8-4	0.6-4.4	0.6-5	1-8	0.5-9	1-15	1-7	0.6-5	0.4-4.4	0.8-4.8	07	Dural			40-480	03
	1-10	1-8	1.5-8	1-8.5	1-10	2-18	2-20	3-34	2-14	1-10	1-9.5	1.5-9	45	St. Steel			50-750	04
	1-13	1-11	1-10	1-11	1-12	2-22	1-28	2-46	1-18	1-13	1-12	1-11	08	Dural			-	-
	2-26	2-22	2-19	2-20	2-26	4-48	2-60	5-95	3-36	2-27	2-25	2-22	09	St. Steel			0.1-1.2	05
	4-50	4-44	4-36	4-40	6-54	10-90	5-120	10-180	5-70	4-50	4-50	4-40	10	Dural			L/min	0.3-3
10-100	10-90	10-70	10-80	10-100	20-180	20-270	40-400	15-140	10-100	10-100	10-85	11	St. Steel	0.4-4.4	07			
	AI	AR	BU	CD	CM	CA	HE	HY	ME	NI	OX	PR					WA	

**Compact Glass Tubes: For Uniflux (1/4") Flowmeters**

	Air	Scale Code	Float Material	Tube Size	Floats are St. Steel	Water (H <sub>2</sub> O)	Scale Code
cm <sup>3</sup> /min	20-200	13	Dural	5	-	-	-
	50-500	51	Dural			15-80	12
L/min	0.2-1	15	Dural	9	-	-	-
	0.5-2.5	52	Dural			25-250	13
	0.5-5	53	Dural			100-700	14
	2-12	18	Dural			0.2-1	15
	AI					WA	

**Long Glass Tubes: For Uniflux (1/4") Flowmeters**

	Air	Scale Code	Float Material	Tube Size	Floats are St. Steel	Water (H <sub>2</sub> O)	Scale Code
L/min	0.05-1.6	24	St. Steel	9	-	2-80	20
	0.3-4.6	25	PEEK			30-380	22
	0.5-16	33	Dural				
L/min	1-33	39	St. Steel	15	-	0.05-1.5	24
	5-115	27	St. Steel			0.1-3.4	34
	-	-	-			0.1-4.8	25
	-	-	-				
	AI					WA	

# INFLUX IMT SERIES VA FLOWMETER

# MT SERIES VA FLOWMETER

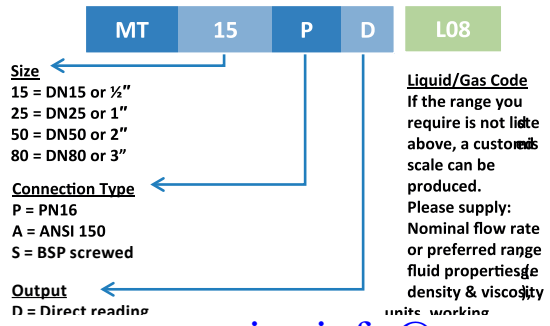
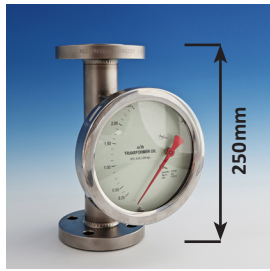
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Size (MM)	Full Scale Flow Rates (at 20°C & 1013 mbar)				Max Pressure Drop (kPa)
	Water	Liquid Range Code	Air (with gas damping)	Gas Range Code	
DN 15 Flange or BSP	50 L/h	L08	1.5 m³/h	G08	1.5
	70 L/h	L11	2 m³/h	G11	1.5
	100 L/h	L14	3 m³/h	G14	1.5
	160 L/h	L16	4.8 m³/h	G16	1.5
	250 L/h	L19	7.5 m³/h	G19	3.0
	400 L/h	L23	12 m³/h	G23	3.0
	600 L/h	L26	18 m³/h	G26	3.5
DN 25 Flange or BSP	1 m³/h	L00	30 m³/h	G00	1.5
	1.6 m³	L02	48 m³/h	G02	3.0
	2.5 m³/h	L04	75 m³/h	G04	3.5
	4 m³/h	L07	120 m³/h	G07	8.0
	6 m³/h	L11	180 m³/h	G11	16.0
DN 50 Flange or BSP	6 m³/h	L00	180 m³/h	G00	3.0
	10 m³/h	L02	300 m³/h	G02	4.0
	16 m³/h	L05	480 m³/h	G05	8.0
	25 m³/h	L08	750 m³/h	G08	16.0
DN 80 Flange only	25 m³/h	L00	750 m³/h	G01	14.0
	50 m³/h	L04	1500 m³/h	G05	22.0

High pressures  
Direct reading  
Alarm option  
4 - 20 mA option  
Gases and liquids  
Flanged connections



Specification	
Gas Range	0.1 - 700 m³/h (air equiv)
Liquid Range	5 L/h – 25 m³/h (water equiv)
Scale Length	100 mm
Alarms*	Single or Dual NAMUR Type (ATEX II 2G)
Transmitter*	2-wire 4 to 20 mA (EEx ia IIC T6) (ATEX II 2GD T70°C)
Protection	IP65
Accuracy	±2% FSD
Repeatability	0.5% of Flow
Temperature	-30°C to 65°C Ambient -40°C to 200°C Fluid
Pressure**	100 bar max. (or flange rating)
Flanged	DIN PN16 or ANSI 150
Screwed	BSP female
Sizes	DN15-DN50 (¼" to 2")
Materials	316 SS standard



MT meters are installed in  
supported by the pipework.

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Tia = 4 to 20mA

2 fluids (non dangerous).

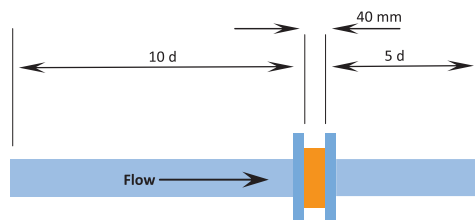
# INFLUX DELTAFLUX ORIFICE FLOWMETER

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Pipe Size (mm)	Water m <sup>3</sup> /h	Scale Code	Water m <sup>3</sup> /h	Scale Code	Air m <sup>3</sup> /h	Scale Code
DN 38	2 to 20	WA 85	2 to 10	WA 91	20 to 150	AI 85
DN 50	5 to 40	WA 86	4 to 20	WA 92	40 to 300	AI 86
DN 80	10 to 100	WA 87	10 to 50	WA 93	100 to 700	AI 87
DN 100	20 to 200	WA 88	20 to 100	WA 94	200 to 1500	AI 88
DN 150	50 to 400	WA 89	40 to 200	WA 95	500 to 3500	AI 89
DN 200	100 to 1000	WA 90	80 to 400	WA 96	1000 to 7000	AI 90
		400 mbar		100 mbar		40 mbar

**Unrecovered pressure loss at maximum flow**

**FLOWSENSE** infra-red flow alarms can be factory mounted or retro-fitted. Details on page 18  
Other materials of construction are available, please enquire for details.



**DF 100 AI 88**

**Size**  
38 = DN 38  
50 = DN 50  
80 = DN 80  
100 = DN 100  
150 = DN 150  
200 = DN 200

Additional sizes are available on request.

**Scale Code**  
Obtain scale code from the tables above

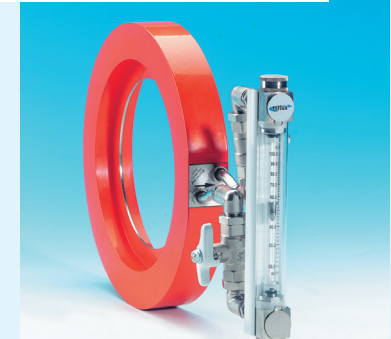
If the range you require is not listed, a customised scale can be produced. Please supply: Nominal flow rate or preferred range, fluid properties (e.g. density & viscosity), units, working pressure and temperature.

The achievable accuracy of the Deltaflux flowmeter is a function of installation. For best results, minimum straight lengths of pipe 10 diameter upstream and 5 diameter downstream are recommended.

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# DELTAFLUX ORIFICE FLOWMETER

- Direct reading
- Gases and liquids
- Between flange connections
- Compact construction
- Vertical or horizontal mounting
- By-pass isolation valves
- Optional alarm



Specification	
Gas Range	20 - 7000 m <sup>3</sup> /h (air equiv)
Liquid Range	2 - 1000 m <sup>3</sup> /h (water equiv)
Scale Length	100 mm
Accuracy	±2% FSD
Temperature	-15 to 90°C
Pressure*	20 bar max. (non shock)
Connections	Flange wafer, bolted between flanges (DIN or BS10 Table E or D)
Seals	Viton and polyurethane
Flow Tube	Borosilicate glass
Float	Liquids: Stainless steel Gases: Anodised aluminium (Dural)
Orifice Carrier	316 St. steel flow orifice mounted in a polyester coated carbon steel carrier
Other Materials	Copper and brass

\*Pressure rating for water application. In accordance with the European Pressure Equipment Directive 97/23/EC,



# INFLUX FLOWSENSE ALARM

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- Adjusts to any point on scale
- Simple interfacing
- Selectable output modes
- Power failure detection
- Can be retro-fitted
- Optional power supply/relay module

# INFLUX FINETRIM VALVES

- Multi-turn operation
- Choice of valve characteristics
- Stainless steel construction
- Interchangeable valve cartridge

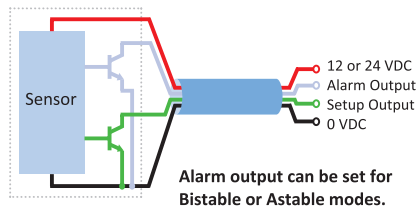
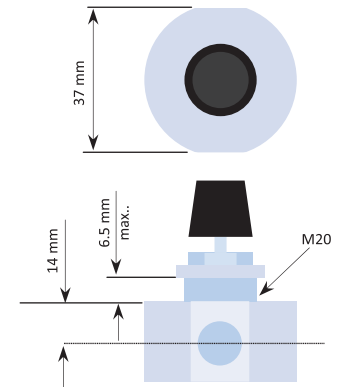


Sensor	
Supply	12 VDC, 30mA (24 VDC optional)
Output	2 x npn open collector* 150mA, 24VDC max.
Cable	3m, screened 4 core
Temperature	-5 to 60°C

Power Supply + Relay Module	
Supply	115/230 VAC, 50-60Hz
PSU Output	12 VDC, 200 mA max.
Relays	2 x SPCO 10A @ 30 VDC/250 VAC 125 VDC/380 VAC max. 10mA @ 5 VDC min.
Indicators	Power on, Output and Setup LEDs
Temperature	-5 to 50°C
Protection	IP65

\* Alarm output conducts in non-alarm state. Setup output non conducting after power failure, until initialised.

Specification	
Temperature	120°C max.
Pressure	30 bar max.
Adjustment	10 operating turns max.
Connections	¼" BSPP Female
Seals	Viton and PTFE
Valve Body	316 stainless steel
Valve Needle	316 stainless steel



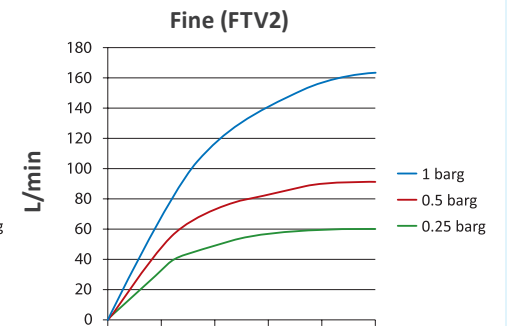
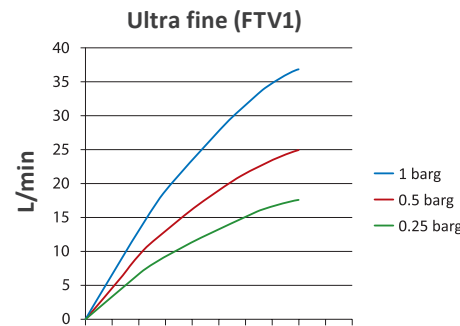
Flowmeter  
Specify type of flowmeter to be used

Power Supply + Relay Module:



Suitable for up to two 12V sensors.

Depending upon flowmeter type and range required, for Hazardous Area applications, MAMMIP type inductive sensors may be



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For non-standard gases or conditions, use the tables below to find the flowrate of Air @20°C and 1013 mbar and match to the equivalent flowmeter type and size.

To convert from Air at other temperatures or pressures, use table 1.

To convert from other gases to Air, use table 2.

Table 1: Multiplier to give equivalent flow @ 20°C and 1013 mbar

Fluid Conditions	0 bar g	1 bar g	2 bar g	3 bar g	4 bar g	5 bar g	6 bar g	7 bar g
0°C	0.965	0.685	0.560	0.485	0.434	0.396	0.367	0.343
10°C	0.983	0.697	0.570	0.494	0.442	0.403	0.374	0.349
20°C	1.000	0.709	0.580	0.502	0.450	0.410	0.380	0.355
30°C	1.017	0.721	0.590	0.511	0.457	0.417	0.387	0.362
40°C	1.034	0.733	0.599	0.519	0.465	0.424	0.393	0.368
50°C	1.050	0.745	0.609	0.528	0.472	0.431	0.399	0.373
60°C	1.066	0.756	0.618	0.536	0.479	0.438	0.405	0.379
70°C	1.082	0.768	0.627	0.544	0.486	0.444	0.411	0.385
80°C	1.098	0.779	0.636	0.552	0.493	0.451	0.417	0.390
90°C	1.113	0.790	0.645	0.559	0.500	0.457	0.423	0.396
100°C	1.128	0.800	0.654	0.567	0.507	0.463	0.429	0.401

Table 2: Multiplier to give equivalent flow of Air

Fluid	Symbol	Multiplier
Acetylene	C <sub>2</sub> H <sub>2</sub>	0.948
Ammonia	NH <sub>3</sub>	0.767
Argon	Ar	1.175
Butane	C <sub>4</sub> H <sub>10</sub>	1.417
Carbon Dioxide	CO <sub>2</sub>	1.233
Carbon Monoxide	CO	0.983
Chlorine	Cl <sub>2</sub>	1.565
Ethane	C <sub>2</sub> H <sub>6</sub>	1.019
Ethylene	C <sub>2</sub> H <sub>4</sub>	0.984
Hydrogen	H <sub>2</sub>	0.264
Hydrogen Chloride	HCl	1.122
Methane	CH <sub>4</sub>	0.744
Nitrogen	N <sub>2</sub>	0.984
Nitrous Oxide	N <sub>2</sub> O	1.233
Propane	C <sub>3</sub> H <sub>8</sub>	1.234

Example 1  
50 L/min of Air @ 2 barg & 40°C  
Using table 1:  
Equivalent flow of Air at 1013 mbar and 20°C  
= 50 L/min x 0.599  
= 30 L/min

Example 2  
50 L/min of Hydrogen @ 1013 mbar & 20°C  
Using table 2:  
Equivalent flow of Air @ 1013 mbar and 20°C  
= 50 L/min x 0.264  
= 13.2 L/min

Example 3  
50 L/min of Hydrogen @ 2 barg & 40°C  
Using tables 1 & 2:  
Equivalent flow of Air @ 1013 mbar and 20°C  
= 13.2 L/min x 0.599  
= 7.9 L/min

For liquids other than water, use the Specific Gravity (SG) of the liquid and table 3 below to find the water flowrate and match to the equivalent flowmeter type and size.

Table 3: Multiplier to give equivalent water flow

Liquid SG (g/cm <sup>3</sup> )	Multiplier
0.7	0.819
0.8	0.882
0.9	0.942
1.0	1.000
1.1	1.056
1.2	1.111
1.3	1.166
1.4	1.218
1.5	1.271
1.6	1.323

Example  
25 L/min of Liquid with a Specific Gravity of 1.2  
Using table 3:  
Equivalent flow of Water  
= 25 L/min x 1.111  
= 27.8L/min

## Unit Conversion

### Flowrate

Multiply to convert	To	
	cm <sup>3</sup> /min	L/min
cm <sup>3</sup> /sec	60	0.06
cm <sup>3</sup> /min	1	0.001
L/min	1000	1
L/h	16.67	0.0166
m <sup>3</sup> /h	16670	16.67
CFM	28320	28.32
CFH	471.9	0.4719
Imp GPM	454.6	4.546
Imp GPH	75.77	0.07577
US GPM	3785	3.785

### Pressure

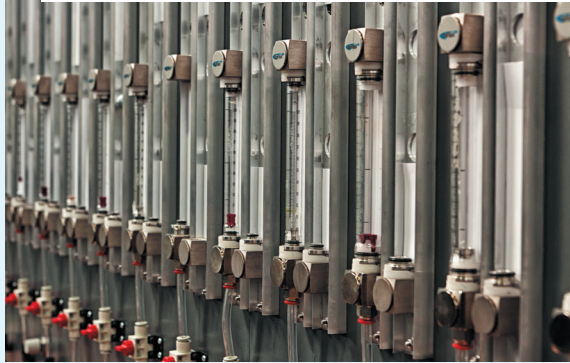
Multiply to convert	To	
	mbar	bar
psi	68.947	0.069
atms.	1013	1.013
inch H <sub>2</sub> O	2.486	0.0025
kg/cm <sup>2</sup>	980.662	0.981
mm H <sub>2</sub> O	0.0977	0.000098
mm Hg	1.329	0.001329
kPa	10	0.01

### Temperature

To convert	To
From	°C
°F	$\frac{°F-32}{1.8}$
K	K-273.15

## INFLUX CALIBRATION AND TESTING

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Each flowmeter scale is produced using our bespoke air or water calibration facilities where all reference equipment used is traceable to national standards and controlled within our approved ISO9001:2008 management system, assuring accuracy within the required limits.



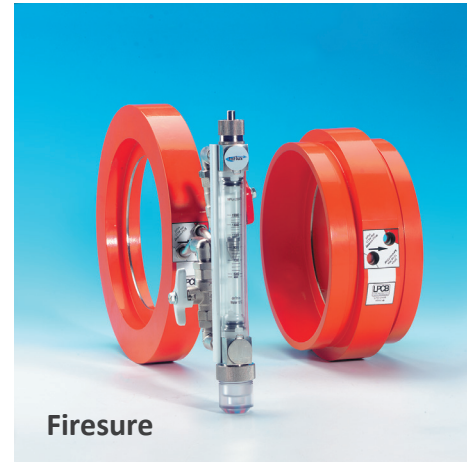
To meet the exacting needs of modern industry we can offer higher levels of accuracy and certification traceable to national standards or third party UKAS certification.



Investment in flow calibration facilities and automation of build and test routines enables Influx to deliver consistent product quality in support of both small batch and high volume manufacturing requirements.

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## INFLUX FIRESURE AND FIRESURE X

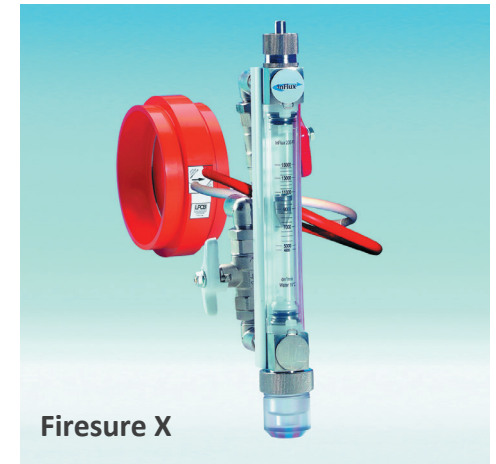


Firesure

**Flange and groove style connection**  
**Simple and quick to install**  
**Horizontal or vertical pipelines**  
**Direct or remote indicator**  
**Certificated to LPS 1045**



LPS 1045: Issue 1  
 Cert No. 464a



Firesure X

Size & connection	Firesure close coupled		Firesure X remote coupled.	
	dm <sup>3</sup> /min	LPCB ref.	dm <sup>3</sup> /min	LPCB ref.
<b>50 Flange</b>	150 to 700	464a/01	200 to 850	464a/11
<b>80 Flange</b>	300 to 1600	464a/02	200 to 1800	464a/12
<b>100 Flange</b>	500 to 3500	464a/03	400 to 4000	464a/13
<b>150 Flange</b>	900 to 7900	464a/04	1100 to 9500	464a/14
<b>200 Flange</b>	2000 to 15000	464a/05	2500 to 17000	464a/15
<b>50 Groove</b>	150 to 700	464a/06	200 to 850	464a/16
<b>80 Groove</b>	300 to 1600	464a/07	200 to 1800	464a/17
<b>100 Groove</b>	500 to 3500	464a/08	400 to 4000	464a/18
<b>200 Groove</b>	2000 to 15000	464a/10	2500 to 17000	464a/20