



GT1600 Series

GT1600 Series

Industrial, Glass Tube Variable Area Flowmeter (Rotameter) for Liquids & Gases

Features

- Configurable to retro-fit GT10xx, GT130x and Full-View
- 360 degrees rotatable viewing angle
- High quality materials for safety, in- and outdoor durability
- 316 stainless steel frame
- Polycarbonate safety shield
- 316/316L dual certified stainless steel process fittings
- Alarms for high- and low flow (optional for all flow ranges, either at time of order, or as add-on in the field)
- Flanged or threaded connections, available horizontal and vertical
- Design compliant to ASME B31.1 & B31.3
- Panel- and wall mount options
- Easy in-situ maintenance: Clean or replace tube and float without removal from the process piping
- Adjust the scale to compensate for process variation
- Optional integral needle valve

Product Specifications

Flow Accuracy	Standard: $\pm 10\%$, $\pm 5\%$, $\pm 2\%$ Full Scale, Class 2.5 acc VDI/VDE Optional: $\pm 1\%$ Full Scale, Class 1.6 acc VDI/VDE
Repeatability	$\leq 0.5\%$ Full Scale
Capacities and Pressure Drops	See Capacities
Scales	Transparent scale. Adjustable Nominal Lengths: 75mm, 127mm and 250mm Choice of direct reading units, millimeter or percentage of maximum flow with factor tag
Ambient Temperature Limits	-4°F to 125°F -20°C to 52°C
Operating Fluid Temperature Limits	33 to 250°F 1°C to 121°C
Mounting Options	In line Panel mount (see Dimensions) Wall mount (see Dimensions)

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INSTRUMENT


Process connections	NPT Threaded		Flanged ANSI 150# RF		
	Horizontal IN/OUT		Horizontal IN/OUT		
	Vertical IN/OUT		Vertical IN/OUT		
	Horizontal IN/ Vertical OUT		Horizontal IN/ Vertical OUT		
	Vertical IN/ Horizontal OUT		Vertical IN/ Horizontal OUT		
Pressure Ratings		Maximum Operating Pressure (PSIG bar) at Fluid Temperature			
	Tube size	Threaded process connections		Flanged process connections	
		psi	bar	psi	bar
	*02	500	34.5	240	16.5
	*06	450	31.0	240	16.5
	07	300	20.7	240	16.5
	08	250	17.0	240	16.5
	09	200	13.8	200	13.8
	10	175	12.1	175	12.1
Materials of construction	Metering Tube (wetted)	Borosilicate glass			
	Process fittings (wetted)	316/316L (dual certified stainless steel)			
	Float (wetted)	Sizes 2&6: Carboly® or 316/316L (dual certified stainless steel) Sizes 7-10: 316/316L (dual certified stainless steel)			
	Float Stops (wetted)	Teflon®			
	O-rings (wetted)	Viton®, Buna-N, Kalrez®, EPDM			
	Housing	316 stainless steel			
	Window & safety shield	Polycarbonate with UV inhibitor			
	Hardware	316 stainless steel			
Alarms	Tube size 02&06	Ring initiator high / low alarm			
	Tube size 07-10	Reed switch high / low alarm			
	Hazardous area approvals	Zone1/Zone2 (ATEX/IECEx) – gas/dust. Protection method Ex m (no barrier) Div1 (UL) – gas/dust. Protection method I.S.			
Valve	Optional integral needle valve				
Certifications	International Calibration Certificate				
	Material Certification to DIN 3.1				
	Declaration of Compliance 2.1 Oxygen Service				

*Pressure rating for tube sizes 02 & 06 are limited 20.7 bar (300 psi) when an alarm is included for threaded process connections.

WARNING

Glass metering tubes are designed for operation up to the maximum operating pressures and temperatures as specified herein. Due to the inherent brittle characteristics of glass and conditions beyond our control, tube breakage could result below specified operating conditions. Do not use glass tube meters with fluids that are toxic, or chemically react with glass such as water above 140°F (60°C), steam, alkalis, fluorine, hydrofluoric acid, or molten metal. Failure to heed warning can result in serious personal injury and/or damage to the equipment.

Capacities

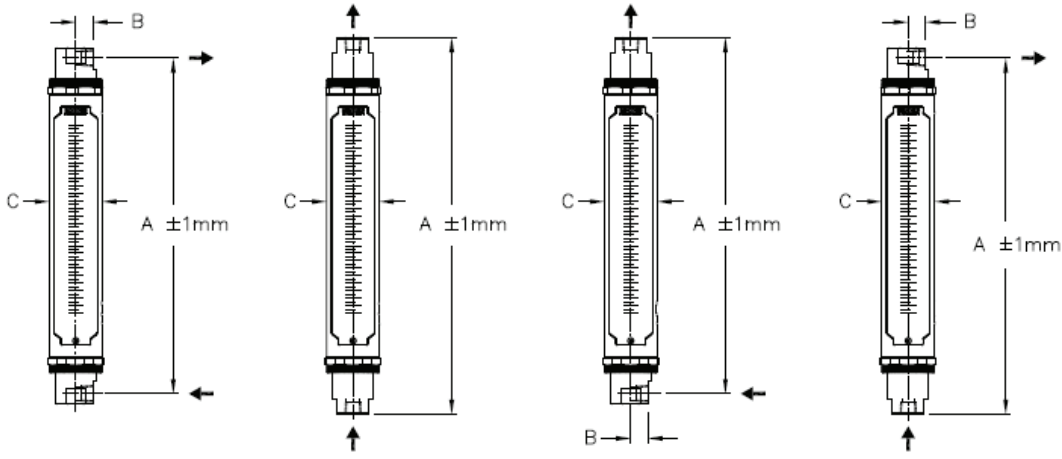
127-Low Flow	Tube	Float	Full Scale - Water				Full Scale - Air			Alarm Type			
			cc/min	l/h	Pressure Drop inch W.C./kPa	V.I.C. cSt	SLPM	ln/h	Pressure Drop inch W.C./kPa				
	Size 02	R-2-127-AAAAT	316SS	1.9	0.11	0.7/0.17	1.0	0.11	6.7	0.8/0.19	Ring Initiator		
		R-2-127-AAAAT	Carboly	3.7	0.22	1.1/0.27	1.0	0.2	12	1.2/0.3			
		R-2-127-AAT	Carboly	7.5	0.45	1.2/0.29	1.0	0.38	23	1.5/0.37			
		R-2-127-DT	316SS	15	0.93	0.9/0.22	1.0	0.68	40	1.0/0.24			
		R-2-127-DT	Carboly	25	1.5	1.5/0.38	1.0	1	61	1.7/0.42			
		R-2-127-AT	316SS	39	2.3	1.1/0.27	1.0	1.4	86	1.2/0.3			
		R-2-127-AT	Carboly	59	3.5	1.9/0.47	1.0	2	120	2.1/0.52			
		R-2-127-BT	316SS	110	6.8	1.8/0.45	1.0	3.9	230	2.0/0.21			
		R-2-127-BT	Carboly	170	10	3.0/0.75	1.0	5.6	340	3.3/0.83			
	R-2-127-CT	Carboly	270	16	6.1/1.51	1.0	9	540	4.8/1.2				
	Size 06	R-6-127-AT	316SS	410	25	6.1/1.53	1.0	14	850	6.8/1.7			
		R-6-127-AT	Carboly	620	37	10.5/2.61	1.0	20	1200	11.6/2.9			
R-6-127-BT		316SS	1000	65	30.1/7.5	1.0	35	2100	33.3/8.3				
R-6-127-BT	Carboly	1500	95	57.8/14.4	1.0	49	2900	64.2/16					
250-High Flow	Size 07	R-7M-25-1FT	7-XV-11A-A	0.48	100	8/2	1.0	1.8	3.1	10/2.5	Reed Switch		
			7-XS-23-A	0.77	170	16/4.0	1.0	3.3	5.6	17/4.2			
	Size 08	R-8M-25-4FT	8-XV-8-A	1.00	240	5/1.5	3.7	4.4	7.5	5/1.3			
			8-XV-14-A	1.40	320	8/2	5.4	5.8	9.9	8/2			
			8-XV-31-A*	2.00	460	16/4	7.0	14	24	17/4.3			
	Size 09	R-9M-25-3FT	9-XS-33-A	3.20	730	4/1	2.3	13	22	8/2			
			9-XV-87-A*	3.90	890	14/3.5	17	28	48	16/4			
			9-XS-87-A*	5.10	1100	18/4.5	3.5	36	62	19/4.8			
	Size 10	R-10M-25-3FT	10-XV-64-A	6.20	1400	12/3	15	25	43	14/3.5			
			10-XS-64-A	7.80	1700	16/4	3.7	32	54	18/4.5			
			10-XS-138-A*	10.00	2400	30/7.5	5.5	80	130	36/9			
			10-XJ-238-A*	21.00	4800	104/26	1.0	150	270	16/4			
	127-High Flow	Size 07	R-7M-127-1FT	7-XV-11A-A	0.41	93	8/2	1.0	1.8	3.1		10/2.5	Reed Switch
				7-XS-23-A	0.66	150	16/4.0	1.0	2.7	4.6		17/4.2	
Size 08		R-8M-127-4FT	8-XV-8-A	0.99	220	5.0/1.25	3.7	4	6.9	6.0/1.5			
			8-XV-14-A	1.3	310	8.0/2	5.4	5.3	9.1	10/2.5			
			8-XV-31-A*	1.7	400	24/6	7.0	11	20	28/7			
Size 09		R-9M-127-4FT	9-XS-33-A	3.0	690	7.0/1.7	2.3	12	21	8.0/2.0			
			9-XV-87-A*	3.6	830	14/3.5	17	26	44	16/4.0			
			9-XS-87-A*	4.5	1000	17/4.2	3.5	32	55	20/5.0			
Size 10		R-10M-127-3FT	10-XV-64-A	6	1300	9/2.25	15	24	41	10/2.5			
			10-XS-64-A	7.4	1600	12/3	3.7	30	52	13/3.25			
			10-XS-138-A*	9.8	2200	29/7.25	5.5	68	110	33/8.25			
			10-XJ-238-A*	20	4700	104/26	1.0	140	250	16/4			
075-High Flow		Size 08	R-8M-75-1	8-XV-8-A	0.82	180	8/2		3.3	5.6	9/2.25	Reed Switch	
				8-RJ-10	1.5	340	9/2.25		6.3	10	11/2.7		
	8-RJ-23			2.4	540	13/3.25		9.9	16	15/3.7			
	8-RJ-30			3.1	710	19/4.8		13	22	22/5.5			
	8-RJ-39			4.7	1000	34/6							
	Size 10	R-10M-75-3	10-RJ-80	12	2700	18/4.5							
			10-RJ-180	21	4900	71/17.6							
			10-RJ-37					24	40	18/4.5			
			10-RJ-83					36	62	35/8.7			
			10-RJ-90					43	73	71/17.6			

Note (1): Air flow rates in standard units are at 70°F & 14.7 psia

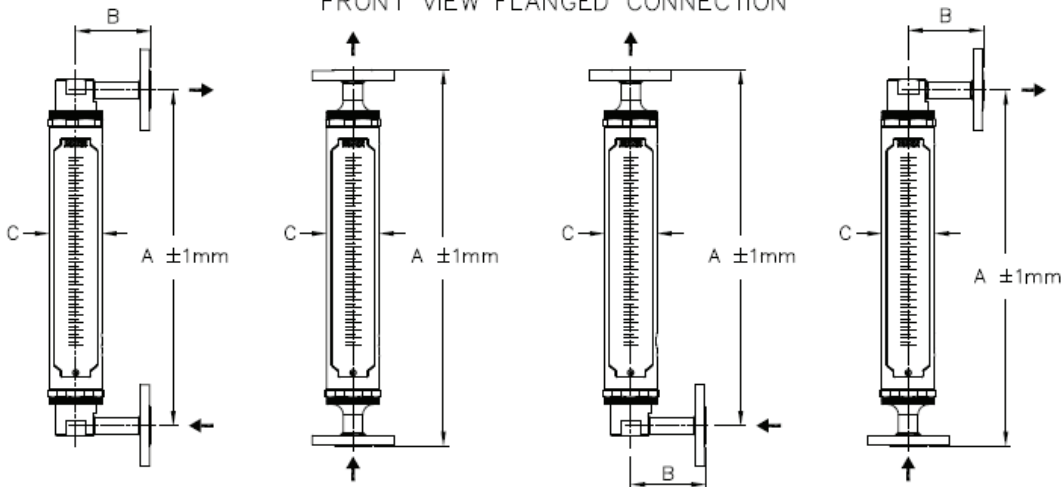
Note (2): Air flow rates in normal units are at 1.013 bar & 20°C

*These codes require a back pressure of 30 psig/2 bar

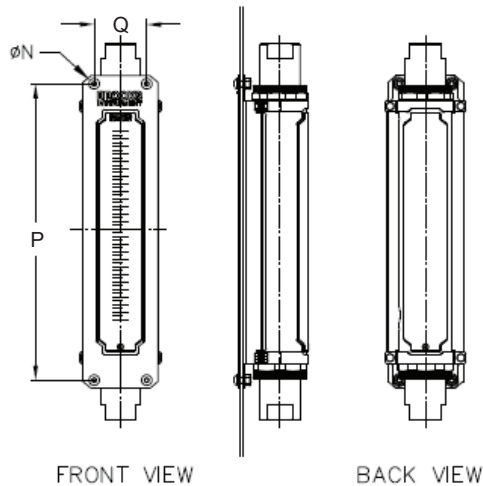
FRONT VIEW THREADED CONNECTION



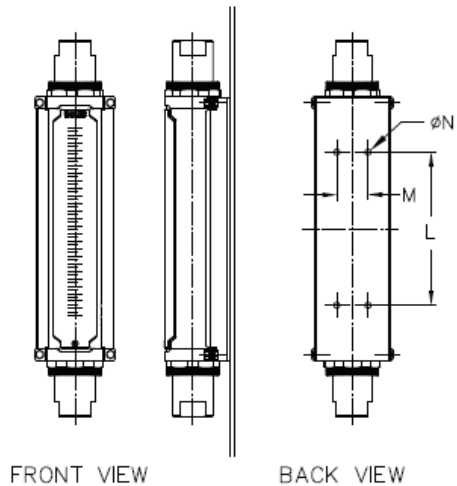
FRONT VIEW FLANGED CONNECTION





BACK OF PANEL (FLUSH) MOUNTING
(RECTANGULAR PANEL CUT-OUT + 4 MTG. HOLES)



FRONT OF PANEL (WALL) MOUNTING
(4 MOUNTING HOLES)



Product Dimensions

Meter type	Tube size	Process connection	Orientation H(horizontal) V(ertical)	Notes	Retro-fit	Model	Dimension																
							A		B		C		L		M		N		P		Q		
							inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
	02 06	NPT-F	H-IN / H-OUT	Standard dimensions ⁽³⁾	GT1000	1020	8.59	218.3	0.59	15.0	1.97	50.0	4.00	101.6	1.00	25.4	0.24	6.0	7.24	184	1.48	37.6	
			V-IN / V-OUT			1024	9.84	250.0	-	-													
			H-IN / V-OUT			1026	9.22	234.1	0.59	15.0													
			V-IN / H-OUT			1027	9.22	234.1	0.59	15.0													
			H-IN / H-OUT	Retrofit only ⁽⁴⁾		Full-View	1110	8.59	218.3	0.59													15.0
			V-IN / V-OUT				1114	9.63	244.5	-													-
			H-IN / V-OUT				1140	9.11	231.4	0.59													15.0
			V-IN / H-OUT				1144	9.11	231.4	0.59													15.0
		Flanged 150lbs RF	H-IN / H-OUT	Standard dimensions ⁽³⁾	GT1000	1020	8.59	218.3	3.50	88.9													
			V-IN / V-OUT			1024	10.63	270.0	-	-													
			H-IN / V-OUT			1026	9.61	244.1	2.95	75.0													
			V-IN / H-OUT			1027	9.61	244.1	2.95	75.0													
			H-IN / H-OUT	Retrofit only ⁽⁴⁾		Full-View	1140	8.59	218.3	4.00													101.6
			V-IN / V-OUT				1144	14.88	377.8	-													-
			H-IN / V-OUT				1146	11.73	298.1	4.00													101.6
			V-IN / H-OUT				1147	11.73	298.1	4.00													101.6
	07 08 09 10	NPT-F	H-IN / H-OUT	Standard dimensions ⁽³⁾	GT1000	1020	17.50	444.5	0.91	23.0	2.76	70.0	8.00	203.2	1.63	41.28	0.35	9.0	15.49	393.5	2.74	69.7	
			V-IN / V-OUT			1024	19.69	500.0	-	-													
			H-IN / V-OUT			1026	18.59	472.3	0.91	23.0													
			V-IN / H-OUT			1027	18.59	472.3	0.91	23.0													
			H-IN / H-OUT #7/8	Retrofit only ⁽⁴⁾		Full-View	1110	16.50	419.1	0.91													23.0
			H-IN / H-OUT #9/10				1114	17.00	431.8	-													-
			V-IN / V-OUT #7/8				1116	16.75	425.5	0.91													23.0
			V-IN / V-OUT #9/10				1117	17.38	441.3	-													-
			H-IN / V-OUT #7/8	Retrofit only ⁽⁴⁾		GT1307	1307	16.94	430.2	-													-
			H-IN / V-OUT #9/10				1020	17.50	444.5	3.94													100.0
			V-IN / V-OUT				1024	19.69	500.0	-													-
			H-IN / V-OUT #7/8				1026	18.59	472.3	3.94													100.0
		H-IN / V-OUT #9/10	Retrofit only ⁽⁴⁾	Full-View	1027	18.59	472.3	4.72	120.0														
		V-IN / H-OUT #7/8			1140	17.00	419.1	3.50	88.9														
		V-IN / H-OUT #9/10			1144	17.50	444.5	4.00	101.6														
		H-IN / V-OUT #7/8			1146	22.88	581.0	-	-														
		H-IN / V-OUT #9/10	Retrofit only ⁽⁴⁾	Full-View	1144	22.50	571.5	-	-														
		V-IN / V-OUT #7/8			1146	19.69	500.0	3.50	88.9														
		V-IN / V-OUT #9/10			1147	20.00	508.0	4.00	101.6														
		H-IN / H-OUT #7/8			1147	19.69	500.0	3.50	88.9														
		H-IN / H-OUT #9/10	1147	20.00	508.0	4.00	101.6																

Note (3) - Standard dimension are for new installations







Note (4) - Retro-fit dimensions are for replacement of GT100x, GT130x and Full-View meters in existing installation. Not for use in new installations.

Product Dimensions

Meter type	Tube size	Process connection	Orientation H(horizontal) V(vertical)	Notes	Retro-fit	Model	Dimension											
							A		B		C		L		M		N	
							inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
127-High Flow	07 08 09 10	NPT-F	H-IN / H-OUT	Standard dimensions ⁽³⁾			12.31	312.7	0.91	23.0	2.76	70.0	N/A					
			V-IN / V-OUT				14.50	368.2	-	-								
			H-IN / V-OUT				13.41	340.5	0.91	23.0								
			V-IN / H-OUT				13.95	354.4	0.91	23.0								
			H-IN / H-OUT #7/8	Retrofit only ⁽⁴⁾			Full-View	1110	11.50	292.1							0.91	23.0
			H-IN / H-OUT #9/10	12.50					317.5	-							-	
			V-IN / V-OUT #7/8	1114					12.00	304.8							-	-
			V-IN / V-OUT #9/10						12.25	311.2							-	-
		H-IN / V-OUT #7/8	1116	11.75	298.5	0.91			23.0									
		H-IN / V-OUT #9/10		12.38	314.3	-			-									
		V-IN/ H-OUT #7/8	1117	11.75	298.5	0.91	23.0											
		V-IN/ H-OUT #9/10		12.38	314.3	-	-											
		V-IN / V-OUT	Retrofit only ⁽⁴⁾	GT1306	1306	11.75	298.5	-	-									
		Flanged 150lbs RF		NPT-F	H-IN / H-OUT #7/8	Standard dimensions ⁽³⁾	GT1000		12.31	312.7							3.94	100.0
	H-IN / H-OUT #9/10				4.72				120.0	-							-	
	V-IN / V-OUT #7/8				14.50				368.2	-							-	
	V-IN / V-OUT #9/10				13.41				340.5	3.94							100.0	
	H-IN / V-OUT #7/8				4.72				120.0	-							-	
	H-IN / V-OUT #9/10				13.41				340.5	3.94							100.0	
	V-IN/ H-OUT #7/8				4.72				120.0	-							-	
V-IN/ H-OUT #9/10	13.41				340.5				4.72	120.0								
Full-View					H-IN / H-OUT #7/8	Retrofit only ⁽⁴⁾	Full-View	1140	11.50	292.1	3.50	88.9						
					H-IN / H-OUT #9/10				12.50	317.5	4.00	101.6						
					V-IN / V-OUT #7/8				17.88	454.0	-	-						
					V-IN / V-OUT #9/10				17.50	444.5	-	-						
					H-IN / V-OUT #7/8				14.69	373.0	3.50	88.9						
					H-IN / V-OUT #9/10				15.00	381.0	4.00	101.6						
					V-IN/ H-OUT #7/8				14.69	373.0	3.50	88.9						
					V-IN/ H-OUT #9/10				15.00	381.0	4.00	101.6						
075-High Flow	08 10	NPT-F	H-IN / H-OUT	Standard dimensions ⁽³⁾			9.02	229.1	0.83	21.0								
			V-IN / V-OUT				11.20	284.6	-	-								
			H-IN / V-OUT				10.11	256.9	0.83	21.0								
			V-IN/ H-OUT				10.11	256.9	0.83	21.0								
		V-IN / V-OUT	Retrofit only ⁽⁴⁾	GT1305			1305	7.75	196.9	-	-							
		Flanged 150lbs RF					H-IN / H-OUT #7/8	Standard dimensions ⁽³⁾			9.02	229.1	3.94	100.0				
							H-IN / H-OUT #9/10				4.72	120.0	-	-				
							V-IN / V-OUT #7/8				11.20	284.6	-	-				
V-IN / V-OUT #9/10	10.11				256.9	3.94	100.0											
H-IN / V-OUT #7/8	4.72	120.0	-	-														
H-IN / V-OUT #9/10	10.11	256.9	3.94	100.0														
V-IN/ H-OUT #7/8	4.72	120.0	-	-														
V-IN/ H-OUT #9/10	10.11	256.9	4.72	120.0														

Note (3) - Standard dimension are for new installations

Note (4) - Retro-fit dimensions are for replacement of GT10xx, GT130xx and Full-View meters in existing installation. Not for use in new installations.

Declarations	Mark	Meter Options			Standards/Directives/Marking	Status/Certificate	
		Mechanical	Reed Switch	Inductive Alarm			
EU Declaration of Conformity				✓	EMC Directive (2014/30/EU)	Declaration	
			✓	✓	RoHS Directive (2011/65/EU)	Declaration	
			✓	✓	ATEX Directive (2014/34/EU)	Declaration	
		✓			ATEX Directive (2014/34/EU) : Non-Electrical	Declaration	
			✓		EMC Directive (2014/30/EU) The equipment uses a reed switch sensor & is outside the scope of the directive since the inherent nature of the physical characteristics of which is such that: (i) it is incapable of generating or contributing to electromagnetic emissions which exceed a level allowing radio and telecommunication equipment and other equipment to operate as intended; and (ii) it operates without unacceptable degradation in the presence of the electromagnetic disturbance normally consequent upon its intended use.		
		✓	✓	✓	Pressure Equipment Directive (2014/68/EU)	Declaration	
		✓	✓	✓	Canadian Registration Number (CRN)	CRN	
Explosion safety "Constructional safety (c)"	ATEX 	✓			II2G Ex h IIC T6...T4 Gb II2D Ex h IIIC T120°C Db Special conditions for safe use: Refer to IOM	TCF: 203104000-1604	
Explosion safety "encapsulation (m)"	ATEX  IECEX		✓		II 2 G Ex mb IIC T6 Gb II 2 D Ex mb IIIC T85°C Db (Standard Version) II 2 G Ex mb IIC T5 Gb II 2 D Ex mb IIIC T100°C Db (With Junction box Version)	KIWA 18ATEX0013 X	
				✓	Ex mb IIC T6 Gb Ex mb IIIC T85°C Db (Standard Version) Ex mb IIC T5 Gb Ex mb IIIC T100°C Db (With Junction box Version)	IECEX KIWA 18.0008X	
		Standards used for evaluation: EN 60079-0 : 2012+A11: 2013, EN 60079-18 : 2015 IEC 60079-0 : 2011, IEC 60079-18 : 2014					
		Ambient Temperature range: -20 °C to +65 °C (Standard Version) -20 °C to +55 °C (With Junction box Version) Input Power: 30V, 250mA, 3W Special conditions for safe use: Refer to IOM					
Explosion safety "Intrinsic Safety (ia)"			✓		Reed Switch Alarms are classified as "Simple Apparatus" when used in Intrinsically Safe circuits. They comply with the requirements of EN60079-11 clause 5.7 – Simple apparatus. Ambient Temperature ratings: -20° C ≤ Tamb ≤ 65° C Input parameters: Vmax = 30V, Imax = 100mA, Ci = 0µF, Li = 0µH Special conditions for safe use: Refer to IOM		
Explosion safety "Intrinsic Safety (ia)"			✓		IS Class I, II, III, Div 1, Groups A, thru G	UL File E73889 Vol3 Sec 6	
				✓	Inductive Ring Sensor Pepperl + Fuchs Model: RC10-14-N3-Y53478 Pepperl + Fuchs Model: RC15-14-N3-Y53479 <u>Non-Hazardous Locations</u> Power Supply Nominal Voltage 8V Operating Voltage 5...25V Current consumption Active area clear : 3mA (at 8V) Ambient Temperature Active area obscured: 0.5...0.95mA (at 8V) 0°C to 40°C		
Explosion safety "Intrinsic Safety (ia)"	ATEX  		✓		<u>Hazardous Location</u> ATEX II 2 G Ex ia IIC T6...T1 Gb IP67 Refer to ATEX Certificate for: Input parameters, Max Ambient Temperature, Special conditions for use	Pepperl + Fuchs PTB 99 ATEX 2128 X	
			✓		FM Approvals Class I, Division 1, Group A, B, C, Class II, Division 1, Group E, F, G, Class III, Division 1 Class I, Zone 0, Group IIC T6	Pepperl + Fuchs Control Drawing:116-0165G	

Code Description	Code Option	Option Description							
I.-II. Base Model Number	16	Large Glass Tube Flowmeter							
III. Body Flow/Scale Length		Body Flow				Scale Length			
	1	250-High Flow				250mm			
	2	127-High Flow				127mm			
	3	075-High Flow				75mm			
	4	127-Low Flow				127mm			
IV. Connection Orientation	0	Horizontal Inlet - Horizontal Outlet							
	4	Vertical Inlet - Vertical Outlet							
	6	Horizontal Inlet - Vertical Outlet							
	7	Vertical Inlet - Horizontal Outlet							
V. Model Revision	A	Initial release of global model code							
VI.-VII. Maximum Flowrate		250 - High Flow							
		Water				Air			
	Code	GPM	l/h	SCFM	m3n/h	Tube		Float	
	JC	0.48	100	1.8	3.1	J	R-7M-25-1FT	C	7-XV-11A-A
	JF	0.77	170	3.3*	5.6*	J	R-7M-25-1FT	F	7-XS-23-A*
	KC	1.00	240	4.4	7.5	K	R-8M-25-4FT	C	8-XV-8-A
	KF	1.40	320	5.8	9.9	K	R-8M-25-4FT	F	8-XV-14-A
	KJ	2.00	460	14*	24*	K	R-8M-25-4FT	J	8-XV-31-A*
	LC	3.20	730	13	22	L	R-9M-25-3FT	C	9-XS-33-A
	LF	3.90	890	28*	48*	L	R-9M-25-3FT	F	9-XV-87-A*
	LJ	5.10	1100	36*	62*	L	R-9M-25-3FT	J	9-XS-87-A*
	MC	6.20	1400	25	43	M	R-10M-25-3FT	C	10-XV-64-A
	MF	7.80	1700	32	54	M	R-10M-25-3FT	F	10-XS-64-A
	MJ	10.00	2400	80*	130*	M	R-10M-25-3FT	J	10-XS-138-A*
	MM	21.00	4800	150*	270*	M	R-10M-25-3FT	M	10-XJ-238-A*
	*These codes require a back pressure of 30 psig/2 bar								
		127 - High Flow							
		Water				Air			
	Code	GPM	l/h	SCFM	m3n/h	Tube		Float	
	SC	0.41	93	1.8	3.1	S	R-7M-127-1FT	C	7-XV-11A-A
	SF	0.66	150	2.7*	4.6*	S	R-7M-127-1FT	F	7-XS-23-A*
	TC	0.99	220	4	6.9	T	R-8M-127-4FT	C	8-XV-8-A
	TF	1.3	310	5.3	9.1	T	R-8M-127-4FT	F	8-XV-14-A
	TJ	1.7	400	11*	20*	T	R-8M-127-4FT	J	8-XV-31-A*
	UC	3	690	12	21	U	R-9M-127-4FT	C	9-XS-33-A
	UF	3.6	830	26*	44*	U	R-9M-127-4FT	F	9-XV-87-A*
	UJ	4.5	1000	32*	55*	U	R-9M-127-4FT	J	9-XS-87-A*
	VC	6	1300	24	41	V	R-10M-127-3FT	C	10-XV-64-A
	VF	7.4	1600	30	52	V	R-10M-127-3FT	F	10-XS-64-A
	VJ	9.8	2200	68*	110*	V	R-10M-127-3FT	J	10-XS-138-A*
	VM	20	4700	140*	250*	V	R-10M-127-3FT	M	10-XJ-238-A*
	*These codes require a back pressure of 30 psig/2 bar								
		075 - High Flow							
		Water				Air			
	Code	GPM	l/h	SCFM	m3n/h	Tube		Float	
	PC	0.82	180	3.3	5.6	P	R-8M-75-1	C	8-XV-8-A
	PF	1.5	340	6.3	10	P	R-8M-75-1	F	8-RJ-10
	PJ	2.4	540	9.9	16	P	R-8M-75-1	J	8-RJ-23
	PM	3.1	710	13	22	P	R-8M-75-1	M	8-RJ-30
	PQ	4.7	1000	N/A	N/A	P	R-8M-75-1	Q	8-RJ-39
	RC	12	2700	N/A	N/A	R	R-10M-75-3	C	10-RJ-80
	RF	21	4900	N/A	N/A	R	R-10M-75-3	F	10-RJ-180
	RJ	N/A	N/A	24	40	R	R-10M-75-3	J	10-RJ-37
	RM	N/A	N/A	36	62	R	R-10M-75-3	M	10-RJ-83
	RQ	N/A	N/A	43	73	R	R-10M-75-3	Q	10-RJ-90

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Code Description	Code Option	Option Description									
VI.-VII. Maximum Flowrate (Continued)		127 - Low Flow									
		Water					Air				
		Code	cc/min	l/h	SLPM	In/h		Tube		Float	
		A3	1.9	0.11	0.11	6.7	A	R-2-127-AAAAT	3	316SS	
		A6	3.7	0.22	0.2	12	A	R-2-127-AAAAT	6	CARBOLOY	
		B6	7.5	0.45	0.38	23	B	R-2-127-AAT	6	CARBOLOY	
		C3	15	0.93	0.68	40	C	R-2-127-DT	3	316SS	
		C6	25	1.5	1	61	C	R-2-127-DT	6	CARBOLOY	
		D3	39	2.3	1.4	86	D	R-2-127-AT	3	316SS	
		D6	59	3.5	2	120	D	R-2-127-AT	6	CARBOLOY	
		E3	110	6.8	3.9	230	E	R-2-127-BT	3	316SS	
		E6	170	10	5.6	340	E	R-2-127-BT	6	CARBOLOY	
		F6	270	16	9	540	F	R-2-127-CT	6	CARBOLOY	
		G3	410	25	14	850	G	R-6-127-AT	3	316SS	
		G6	620	37	20	1200	G	R-6-127-AT	6	CARBOLOY	
		H3	1000	65	35	2100	H	R-6-127-BT	3	316SS	
	H6	1500	95	49	2900	H	R-6-127-BT	6	CARBOLOY		
VIII. Fitting Material	A	316 Stainless Steel									
	B	316 Stainless Steel w/ CRN									
IX. Connection Size	1	1/4" Low Flow									
	2	1/2" High Flow									
	3	3/4" High Flow									
	4	1" High Flow									
	5	1" Vertical / 3/4" Horizontal. Size 10 only.									
X-XI. Connection Type	AA	Standard / GT1000 Retrofit				NPT - Female					
	AB	Standard / GT1000 Retrofit				ANSI #150 RF Flange					
	BA	Retrofit GT130x				NPT - Female					
	CA	Retrofit Full-View 11xx				NPT - Female					
	CB	Retrofit Full-View 11xx				ANSI 150# RF Flange					
	DC	Retrofit GT1000				Rc - Female					
XII. O-Ring Material	1	Viton® fluoroelastomer									
	2	Buna									
	3	Kalrez®									
	4	EPDM									
XIII. Scale Inscription	1	MM Scale									
	2	Percent Scale									
	3	Direct Reading Scale									
	4	Dual Scale									
XIV. Meter Accuracy	A	±10%									
	B	±5% Full Scale									
	D	±2% Full Scale									
	F	±1% Full Scale									
	G	2.5 VDI/VDE									
	H	1.6 VDI/VDE									
XV. Valve Type/Location	0	None									
	1	Valve at Inlet									
	2	Valve at Outlet									
XVI. Alarm	0	None									
	1	1 Switch/Sensor									
	2	2 Switches/Sensors									
XVII. Approvals	A	None									
	B	ATEX - Zone 1 & Zone 2, non-Electrical									
	C	UL / FM - Hazardous location									
	D	ATEX - Zone 1 & Zone 2, Electrical									

Sample Standard Model Code

I-II	III	IV	V	VI-VII	VIII	IX	X-XI	XII	XIII	XIV	XV	XVI	XVII
16	1	4	A	D0	A	2	AA	1	3	D	0	0	A

* These parts and services are not part of the product model code but should be selected during product configuration.

Accessory Parts

CONDULET JUNCTION BOX ASSEMBLY

<i>from 16xxG Model Code, position 16</i>		Part Numbers for Relays
Option Code	Description	
0	None	
1	1 Switch/Sensor	203Z023AAA
2	2 Switches/Sensor	203Z023AAA

RELAY

<i>from 16xxG Model Code, position 16</i>		Part Numbers for Relays		
Alarm		110VAC 1 or 2 relay	220VAC 1 or 2 relay	24VAC 1 or 2 relay
Option Code	Description			
0	None			
1	1 Switch/Sensor	029G008ZZZ	or	029G010ZZZ or 029G012ZZZ
2	2 Switches/Sensor	029G008ZZZ	or	029G010ZZZ or 029G012ZZZ

MOUNTING KITS

<i>from 16xxG Model Code, position 3</i>			Part Numbers for Kits	
Option Code	Flow/Scale Length		Front of panel (wall) mounting	Back of panel (flush) mounting
	Description			
1	250 - High Flow	250mm	778Z019AAA	778Z021AAA
2	127 - High Flow	NA	NA	NA
3	075 - High Flow	75mm	NA	NA
4	127 Low Flow	127mm	778Z018AAA	778Z020AAA

Services

- Clean for Oxygen Service 2.1
- Commercial Cleaning
- Declaration of Compliance 2.1
- International Calibration Certificate (ICC)
- Material Certification 3.1
- NACE MR0175 MR0103
- PMI (Positive Material Identification)
- Pressure Test Certificate 2.2

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit www.BrooksInstrument.com to locate the service location nearest to you.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users, and maintenance persons. Please contact your nearest sales representative for more details. Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

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