

Variable Area Flowmeter/monitor

Glass cone with threaded connection



measuring • monitoring • analysing

URM



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Variable Area Flowmeter/monitor Model URM



Description

The Kobold URM model flowmeter/monitor works on the basis of the suspended float principle. It is used for measuring the flow rates in closed pipe line systems.

The medium flows from below through a glass measuring cone that gets wider on top. Thus, the float is raised and indicates the respective flow rate on the scale provided on the measuring cone. To monitor flow rate limits, the URM meters can be optionally furnished with "open collector" proximity switches. By its special design, this model is particularly suitable for applications where only very small operating pressures are available. Another advantage is offered by the very large sight glass which optically allows direct flow observation.

Applications

- Domestic engineering
- Cooling circuits
- Plant engineering
- Water treatment
- Heating
- Machine tools
- Solar systems
- Welding machines
- Paper machines
- Glass melting pots
- Extrusion machines
- Induction furnaces

Technical Details

Installation position:	vertical
Accuracy class:	4 according to VDI
Max. temperature:	100 °C (65 °C for PVC)
Max. pressure:	01H37H 20bar 43H57H 12bar 63H65H 8bar 01L37L 16bar 43L55L 10bar 63L65L 6bar
Calibration conditions:	water: 20°C, air: 20°C, air pressure: 1.013 bar abs.
Contact (optional):	
Proximity switch:	PNP open collector, n. o. contac

Proximity switch:	Ρľ
Ambient temperature:	-2
Supply voltage:	12
Current consumption:	m
Cable:	2
Protective category:	ΙP

ict 25...+70°C 2...24 V_{DC} nax. 10 mA m, PVC-insulated P 67

Materials

Material combination URM

Ordering code	Connection	Float	Seal	Ring	Housing	Measuring cone
33	1.4301	1.4301	NBR	PVC	st. steel 1.4301	
55	1.4404	1.4404	FPM	PTFE		
99**	1.4301	1.4301	NBR	PVC		
	1.4404	1.4404	EPDM	PTFE		borosilicate
		aluminium	FPM	1.4301		glass
		PTFE	PTFE			
		PVC				
		PP				

** Customer specification on request



Order Details (Example: URM- 33 01H I2 0)

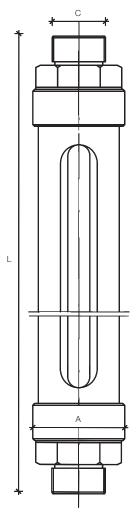
Model	Model Material Instru combi- men		5 5		Pressure Thread connection loss female or male		Contacts	
nati	nation	length	water [L/h]	air [m³ _N /h]	[mbar]			
		01H = 0.252.5	01L = 0.00320.032	6				
			03H = 0.44	03L = 0.0080.08	6	12 = G ¼ female 13 = G % female	G3 = G % male G4 = G ½ male	0 = no contact
		210 mm	05H = 0.636.3	05L = 0.020.2	8			
			07H = 110	07L = 0.0320.32	10			
			09H = 1.616	09L = 0.050.5	10			
				11L = 0.020.2	10			
			13H = 110	13L = 0.0320.32	10	I2 = G ¼		
		360 mm	15H = 1.616	15L = 0.050.5	10	female I3 = G ³ / ₈ female	G3 = G ³ / ₈ male G4 = G ¹ / ₂ male	
			17H = 2.525	17L = 0.080.8	12		$G4 = G \frac{1}{2}$ male	
			19H = 4.040	19L = 0.131.3	12			
			22H = 6.363	22L = 0.22.0	17			
			24H = 10100	24L = 0.323.2	24	$\mathbf{I3} = \mathbf{G} \frac{3}{8}$ female $\mathbf{I4} = \mathbf{G} \frac{1}{2}$ female	G3 = G % male G4 = G ½ male G5 = G % male	
		360 mm	26H = 16160	26L = 0.55.0	28			
			28H = 25250	28L = 0.88.0	25			
			33H = 40400	33L = 1.313	36	I4 = G ½ G4 = G ½ male female G5 = G ¾ male I5 = G ¾ G6 = G 1 male		
URM-	33 55	360 mm	35H = 63630	35L = 2.020	34		G5 = G ¾ male G6 = G 1 male G5 = G ¾ male	0 = no contact
•••••	99**		37H = 1001000	37L = 3.232	43			
			43H = 1001000	43L = 3.232	43	15 = G ³ ⁄ ₄ female		
			45H = 1601600	45L = 5.050	48			
	440 mm	47H = 2502500	47L = 8.080	51	$\mathbf{I6} = \mathbf{G} 1$ female $\mathbf{G8} = \mathbf{G} 1 \frac{1}{2}$ male $\mathbf{G8} = \mathbf{G} 1 \frac{1}{2}$ male	P* = 1 PNP normally open		
		440 mm	53H = 4004000	53L = 13130	51	16 = G 1 female 17 = G 1 ¼ female 18 = G 1 ½ female	G6 = G 1 male norm G7 = G 1 ¼ open male G8 = G 1 ½	R * = 2 PNP normally open
	-		55H = 6306300	55L = 20200	57			
			57H = 1 00010 000		70		male G9 = G 2 male	_
		600 mm	63H = 160016000	63L = 32320	93		G8 = G 1 ½ male G9 = G 2 male	
			65H = 250025000	65L = 50500	102	_	GA = G 2 ½ male GB = G 3 male	
		on request YYY = others on request					1	

* Other switching functions on request ** Customer specification on request



Dimensions

URM with male thread



UR	A with female thre	ć
*		
L		
		-
*		

URM with male thread							
Model	L [mm]	A [mm]	C [mm				
URM-xx 0	210 360	00.5	³ ⁄8"	1⁄2"	-	-	
URM-xx 1		29.5	³ ⁄8"	1⁄2"	-	Ι	
URM-xx 2		40.0	³ ⁄8"	1⁄2"	3⁄4"	-	
URM-xx 3		49.0	1⁄2"	3⁄4"	1"	-	
URM-xx 4	440	62.0	3⁄4"	1"	11⁄4"	1 1⁄2"	
URM-xx 5		82.0	1"	1 1⁄4"	1 1⁄2"	2"	
URM-xx 6	600	122.0	1 1⁄2"	2"	21⁄2"	3"	

URM with female thread							
Model	L [mm]	A [mm]	C [mm				
URM-xx 0	210	29.5	1⁄4"	3⁄8"	-	-	
URM-xx 1	360		1⁄4"	³ ⁄8"	-	-	
URM-xx 2		40.0	³ ⁄8"	1⁄2"	-	-	
URM-xx 3		49.0	1⁄2"	3⁄4"	-	-	
URM-xx 4	440	62.0	3⁄4"	1"	-	-	
URM-xx 5		82.0	1"	11⁄4"	1 1⁄2"	-	

No responsibility taken for errors; subject to change without prior notice.

URM with female thread