

Variable Area Flowmeter

glass cone

UNIROTA



measuring • monitoring • analysing

UVR/UTR

- Measuring range: water: 10-100 l/h...200-2000 l/h air: 0.1-1...5-50 Nm³/h
- Accuracy class: 4 acc. to VDI/VDE
- p_{max}: 10 bar; t_{max}: 100 °C (65 °C for PVC)
- Connection: G³/₈, G¹/₂, ³/₈" NPT, ¹/₂" NPT or others with adapters
- Material: stainless steel or POM-C



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Description

The flowmeters and switches model UVR and UTR for liquids and air operate on the suspended float principle: that is, the installation position is vertical and the direction of flow is from bottom to top.

The instruments have been designed as simple and thus economical measuring systems. The float for UVR and UTR is a bomb form float, whereby the indication point is the top of the float. The appliance is available with or without needle valve as well.

Applications

- Cooling water system
- Gas monitoring for burners
- Inert gas controlling

Technical Details

Installation position: Accuracy class: Max. pressure: Process temperature:	vertical, flow from bottom 4 acc. to VDI/VDE 3513 10 bar 0+100°C 0+70°C with contact 0+65°C (PVC float)
Ambient temperature:	0+65°C
Protection:	IP65
Connections:	G 36, G 1⁄2, 36" NPT, 1⁄2" NPT
	Option: adapters (G ¼, G ‰, G ½) pipe connections for plastic pipes hose connections push-on connections
Materials	
Fitting:	stainless steel (1.4401, 1.4301) or POM-C
Measuring tube:	borosilicate glass
Float stop:	PTFE or st. steel 1.4301, 1.4401
Float:	stainless steel (1.4401,1.4301), PVC, aluminium, PP
Gasket:	FPM, EPDM, NBR
Valve:	stainless steel (1.4401, 1.4301) (not usable as shut-off valve)

Limit Switches (option)

The flowmeters can be fitted with limit switches as an option. These limit switches are cylinder type proximity switches. The electrical connection is via 2m cable. The following type is available: Monostable (preferably used as Min./Max. contact).

Material Combinations*

Code	Housing	Connection	Valve	Float	Gaskets	Tube
0	POM-C	POM-C	POM-C	PVC for gases PTFE for liquids	EPDM	borosilicate glass
3	1.4301	1.4301	1.4301	1.4301	FPM	
5	1.4404	1.4404	1.4404	1.4404	FPM	

* Special material combination on request



Order Details Liquids (Example: UVR-0 20H 0 I3 00)

Model	Measuring ranges Water [l/h]	Needle valve	Connection	Switch ²⁾
UVR-0 UVR-3 UVR-5	20H = 10100	0 = without 1 = with valve	I3 = G%	
	22H = 16160			
	24H = 25250		N3 = 3/8" NPT YY = other	
	26H = 40400		TT = Ouler	00 = none 1B = 1x N/O, PNP
	28H ¹⁾ = 63630			2B = 2x N/O, PNP
UTR-0 UTR-3 UTR-5	26H = 40400		I4 = G½ N4 = ½" NPT YY = other	
	28H = 63630			
	30H = 1001000			
	32H = 1601600			00 = none 1C = 1x N/O, PNP
	33H ¹⁾ = 2002000			2C = 2x N/0, PNP

¹⁾ Only with stainless steel float (UTR/UVR -3 and -5)

²⁾ Switch is available only with stainless steel float (UTR/UVR -3 and-5)

Order Details Gases (Example: UVR-0 20L 0 I3 00)

Model	Measuring ranges Air [Nm ³ /h] ³⁾	Needle valve	Connection	Switch ²⁾	
UVR-0 UVR-3 UVR-5	20L = 0.1 1.0	0 = without 1 = with valve	I3 = G% N3 = %" NPT YY = other		
	22L = 0.161.6				
	24L = 0.252.5				
	26L = 0.44				
	28L = 0.636.3			00 = none 1B = 1x N/O, PNP 2B = 2x N/O, PNP	
	30L = 110				
	32L = 1.616				
	33L ¹⁾ = 220				
UTR-0 UTR-3 UTR-5	26L = 0.4 4		I4 = G1⁄2 N4 = 1⁄2" NPT YY = other		
	28L = 0.636.3				
	30L = 110				
	32L = 1.616				
	34L = 2.525			00 = none 1C = 1x N/O, PNP	
	36L = 440			2C = 2x N/O, PNP	
	37L ¹⁾ = 550				

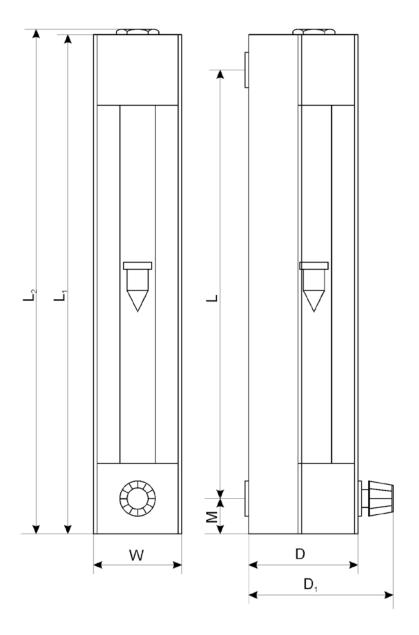
 $^{\rm 1)}$ Only with stainless steel float (UTR/UVR -3 and-5) $^{\rm 2)}$ Switch is available only with stainless steel float (UTR/UVR -3 and-5)

³⁾ @ 1.013 bar abs and 20 °C

1/06-2021



Dimensions [mm]



Model	L	L ₁	L ₂	М	w	D	D ₁
UVR-xM	240	283	287.5	21	50	62	100-108
UTR-xM	340	375	375.0	17	62	62	105-114