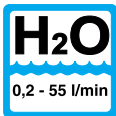


Flowmeter with analog output

DUM/TA

Function

The flowmeters type DUM/TA operate with the float measuring principle.



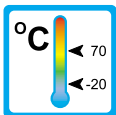
Application

The flowmeters type DUM/TA are employed to measure and monitor volume flow of liquids. An analog transmitter produces an appropriate signal for the respective flow.

The signal can be employed by the user for most different measuring applications and tasks of regulation.

Areas of application:

- Coolingsystems and cooling-circuits
- Medicine technology
- Pharma industry
- Chemical industry
- Research and development



Features

The DUM/TA series proves itself through reliable function and high repeatability. Further characteristics of this series are:

- Analog output (4 - 20 mA / 0 - 10 V)
- High electromagnetic compatibility
- Zero and span of the measuring range separately adjustable (2 potentiometer)
- Universal mounting
- High pressure resistance
- Threaded connection
Special threads on request

Installation hints

The installation of the flowmeter can be done in any way in the system. The flow direction must be observed.

The flowmeter must not be used as a supporting part in a pipeconstruction!

The medium must not contain any solid particles!
We recommend the installation of strainers type SFD or SFM.

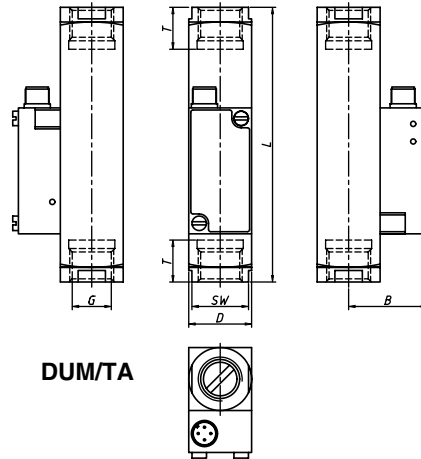
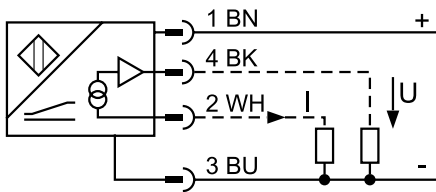
External magnetic fields influence the switch contact. Keep adequate distance to those magnetic fields (e.g. electromotors)!

The operating instruction for DUM/TA must be observed under any circumstances!



Ranges, Technical data

Connection diagram



DUM/TA

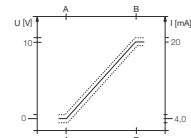
Summary of types DUM/TA

Type	Switch range* H ₂ O [l/min]	Overall dimensions mm							Weight approx. [g]
		SW	D	B	G	DN	T	L	
DUM/TA - 4	0,2 - 4	27	30	37	1/4"	8	14	130	850
DUM/TA - 5	0,6 - 5								
DUM/TA - 8	0,5 - 8								
DUM/TA - 14	1 - 14								
DUM/TA - 28	1 - 28								
DUM/TA - 40	2 - 40	27	30	37	1/2"	15	14	148	900
DUM/TA - 55	4 - 55				3/4"				

* Other media on request

Technical data	DUM/TA		
Measuring range [A...B]:	10...50 mm (adjustable by 2 potentiometers)		
Repeatability:	≤ 0,5 % of range [A...B] (≤ depending on positioner)		
Linearity error:	≤ 10 % of full scale of the flowmeter		
Temperature drift:	≤ ± 0,09 % / K	Analog output (current):	4...20 mA
Operating temperature:	-20 °C...+70 °C	Load resistance voltage output:	≥ 4,7 kΩ
Operating voltage U _g :	15...30 VDC	Load resistance current output:	≤ 0,4 kΩ
Residual ripple:	≤ 10 % U _{SS}	Measuring frequency:	800 Hz
No-load current I ₀ :	≤ 23 mA	Recovery time at output:	≤ 12 ms
Design breakdown voltage:	≤ 0,5 kV	Housing material:	Plastic, PBT-GF20-V0
Output function:	four wire, analog output	Connection:	Plug, M12 x 1
Short-circuit protection:	yes	Vibration stability:	55 Hz (1 mm)
Wire rupture safety / polarity reversal protection:	yes / complete	Shock resistance:	30 x g (11 ms)
Analog output (voltage):	0...10 V	Ingress protection:	IP 67
Operating pressure:	PN 200 bar (Brass-Version), PN 300 bar (Stainless Steel-Version)		
Pressure drop:	0,02 - 0,8 bar		
Materials:	Brass-Version	Stainless Steel-Version	
Wetted parts:	Brass nickel-plated	1.4571	
Spring (wetted part)	1.4571	1.4571	
Gasket (wetted part)	Perbunan (optional Viton, EPDM)*	Viton (optional Perbunan, EPDM)*	

* Other gasket materials on request



DUM/TA 2 0001 04-05 E.M

