



## Flow Transmitter HAL

Paddle wheel flow transmitter for measuring liquids and viscous media



D-EN-HAL-20220225

- Paddle wheel principle
- Large measuring range
- For liquids and viscous media



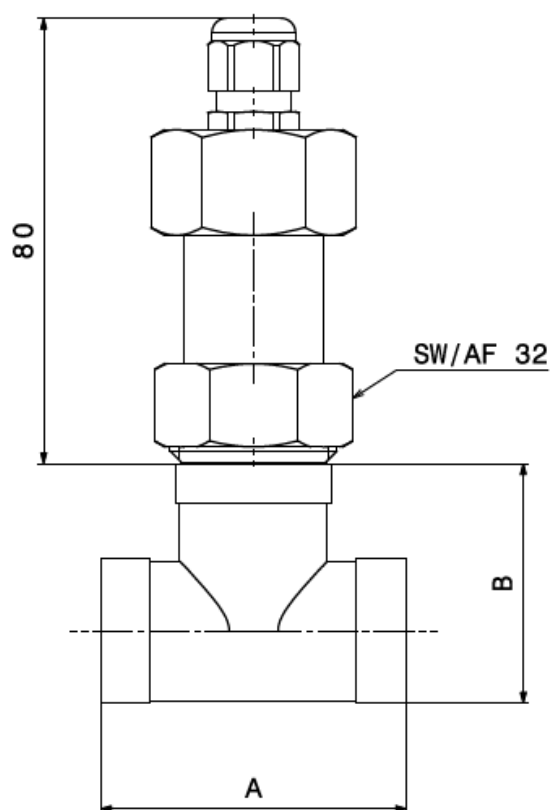
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### Measuring principle

By restricting it to the main function (analogue flow output signal), a very compact design has been realized at an extremely reasonable price. The flowmeter HAL is working according to the paddle wheel principle. The signal is transmitted using a Hall sensor and magnet. A 4 – 20 mA or frequency output signal is provided, which is programmed customer-specifically. This makes it possible to adapt the system individually to the respective application.

### Technical drawing HAL



Type	Dim. A	Dim. B
HAL-15	80	43
HAL-20	55	43
HAL-25	58	51
HAL-32	65	62
HAL-40	67	68
HAL-50	78	81

Types and flow rates				
Type	DN	R"	Flow rate min. l/min	Flow rate max. l/min
HAL-15	15	1/2"	2,5	50
HAL-20	20	3/4"	5,5	92
HAL-25	25	1"	8	145
HAL-32	32	1 1/4"	14	240
HAL-40	40	1 1/2"	22	375
HAL-50	50	2"	35	580

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20mA corresponds to the respective full scale value. Lower values can be set on request.



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Technical data	
Measuring principle	Paddle wheel
Mechanical connection	T-fitting
Material housing	Stainless steel (wetted parts)
Material paddle wheel	POM
Material bearing	Sapphire / Ruby
Material axis	Steel
Protection class	IP 65
Signal transmission	Hall sensor / magnet
Accuracy	±2% of final value
Power supply	12-26V DC
Analog output	4-20 mA
Operating temperature	-40°C - +100°C
Max. pressure	25 bar
Current consumption	50 mA max.
Connection cable	3.2 m long



### Electrical connection

White = + power supply (24V DC)  
Brown = - power supply (24V DC)  
Green = - analog output  
Yellow = + analog output

### Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at [www.schmidt-messtechnik.com](http://www.schmidt-messtechnik.com).