ROTAMETER OR MASS FLOW METER?

Variable area flowmeter or high-precision mass flow meter: The user determines the device

Variable area flowmeters for plant and apparatus construction are just as popular as ever. The numerous advantages in daily practice are convincing: cost-effective purchase, simple installation and handling, maintenance-free and independent operation.

Certain applications require measurement accuracy, with respect to temperature and pressure independence, which cannot be achieved with conventional variable area flowmeters. This is where the 'red-y compact' thermal mass flow meters come into their own.

Alongside the advantages of the variable area flowmeters, the devices offer extremely precise and rapid measurement with digital CMOS sensors and run independent of mains electricity thanks to battery power.

Measuring principle	Floating-body	Thermal Mass Flow
		
	Reasonable & secure	Digital Convenience
Media	Gases & Liquids	Gases
Accuracy	+/- 4% of full scale	+/- 1% of full scale
Turndown ratio	1 : 10	1 : 50
Measuring Ranges	2 mln/min – 450 ln/min	1 mln/min – 300 ln/min
Pressure insens.	NO	YES
Temp. insens.	NO	YES
Scale	Direct reading or mm scale	Direct reading
Calibration	Air/Water	Real gas
Manual Valve	YES	YES
Totalizer	NO	YES
Alarmfunctions	With limit indicator (Relay)	Integrated
Display of reading	Float in measuring glass	LC-Display
Mounting position	Vertical	Any position
Supply	Mechanical Device	Battery or 24 Vdc
Material	Aluminium or stainless steel	Aluminium or stainless steel
Seals	FKM or EPDM	FKM or EPDM

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