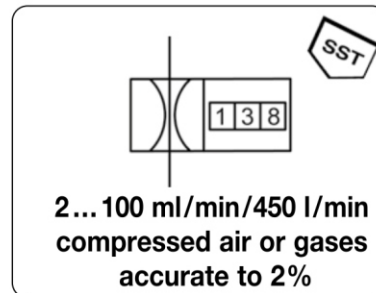


VGM - Régulateur proportionnel de débit, pour air comprimé et gaz neutres, sans vanne de contrôle manuelle

Description	Thermal mass flow meter based on high precision MEMS technology (CMOS sensor). Pressure and temperature-insensitive according to the CTA constant temperature principle. Also insensitive to pressure surges.		
Media	compressed air or non-corrosive gases	Operating pressure	max. 10 bar
Supply voltage	Standard AA battery or Micro-USB power supply (DIN62684), optionally external power +12 ...+30 V DC (max. 200 mA)		
Display	Touch-display 128 x 64 px, backlit only with external power supply (Micro-USB or 24 V DC)		
Electrical connector	optionally length 2.0 m, with free ends at 24 V DC	Function	totalisator included, physical units can be changed
Alarm functions	3 configurable alarms, programmable as : low alarm, high alarm, window alarm and totalizer alarm. The alarms can be configured with different parameters: delay and alarm duration. Relais: switching current up to 1A, switching voltage 30 V DC		
Accuracy	± 2% FS, from 200 l/min ± 3% FS	Response time	500 ms at 99% accuracy
Turndown ratio	1:50 (Eco) or 1:1000 (Special)	Protection class	IP 50
Flow regulation	manual fine adjustment by 15 turns	Mounting position	any, horizontal from 5 bar on
Temperature range	0 °C to 50 °C / 32 °F to 122 °F	Warm-up time	< 1 sec. for full accuracy
Material	Body: aluminium, optionally electropolished stainless steel 316	Elastomer:	FKM, optionally EPDM



Dimensions			Operating pressure max. bar	Accuracy %	Connection thread G	Flow rate ml/min / l/min	Order number
A mm	B mm	C mm					

Mass flow meter			w/o manual control valve, LCD-Display, battery mode, portable, aluminium, FKM			VGM*1	
114	44	12.5	10	2	G¼	2 ... 100 ml/min	VGM-A1
						4 ... 200 ml/min	VGM-A2
						10 ... 500 ml/min	VGM-A5
						0.02 ... 1 l/min	VGM-B1
						0.04 ... 2 l/min	VGM-B2
						0.1 ... 5 l/min	VGM-B5
160	54	17.5	10	2	G½	0.2 ... 10 l/min	VGM-C1
						0.4 ... 20 l/min	VGM-C2
						1 ... 50 l/min	VGM-C5
						2 ... 100 l/min	VGM-D1
						4 ... 200 l/min	VGM-D2
						4 ... 300 l/min	VGM-D3
						9 ... 450 l/min	VGM-D4



Special options, add the appropriate letter oder number

deviant volume flow	indicate on order	VGM-XX
limit switch	min. / max.-alarm, 1 A SPDT switch, incl. 24 V DC supply	VGM- . . G2
stainless steel body	1.4305, electropolished throughout (<1,6 µm)	VGM- . . S
EPDM elastomer	(FDA) for VGM-A1 to -C5	VGM- . . E
24 V DC supply	cable attached on the device, length 2 m, with free ends	VGM- . . 2
panel mounting	cut-out 48 x 96 mm, protection class IP50 in the front	VGM- . . T
1% accuracy	for G¼	VGM- . . H
carbon dioxide	CO ₂	VGM- . . 03
argon	Ar	VGM- . . 05
nitrogen	N ₂	VGM- . . 07
helium	He	VGM- . . 09
hydrogen	H ₂	VGM- . . 11
methane	CH ₄	VGM- . . 13
oxygen	O ₂	VGM- . . 15
propane	C ₃ H ₈	VGM- . . 16
nitrous oxide	N ₂ O	VGM- . . 17
gases	see above for G½	VGM- D . . .

Specific gas calibration			
gas species			max. l/min
nitrogen	07	N ₂	450
oxygen	15	O ₂	450
argon	05	Ar	300
helium	09	He	450
hydrogen	11	H ₂	300
carbon dioxide	03	CO ₂	150
propane	16	C ₃ H ₈	80
methane	13	CH ₄	100

