



GF100 TÖMEGÁRAM SZABÁLYZÓ

Széria GF80, GF81, GF100, GF101, GF120, GF120XSL, GF120XSD, GF121, GF125, GF126, GF135

GF-100
Tömegárammérő – GF-100

- Minden típusú gázhoz 34 bar-ig max. 50 ° C-ig
- 0,003–36 000 l / perc tartomány
- Teljes körű áramlási területek 300 sl / percig (ref. N2)
- 0-10V, 4-20 mA kimenet
- Nagy pontosság, stabilitás és válaszdő

BROOKS[®]
INSTRUMENT



TERMÉKLEÍRÁS

A Brooks GF-100-120-125 termikus tömegáramlás-szabályozó/tömegárammérő a legtöbb alkalmazásra felhasználható, amikor bármilyen típusú gázok mérésére és szabályozására van szükség.

Megrendelésével és bővebb felvilágosításért forduljon Bjarne Österberghez a bjarne.osterberg@oemautomatic.se e-mail címen vagy a +46 075 242 4251-es telefonszámon.

Model Code

Code Description	Code Option	Option Description	
I. Base Model Code	GF040	Elastomer / Range Flow (0-50 slpm)	
	GF080	Metal / Range Flow (0-50 slpm)	
II. Configurability	C	Multiflo Capable. Standard Bins or specific gas range may be selected	
	X	Not Multiflo Capable. Specific gas/range required	
III. Special Application	XX	Standard	
IV. Valve Configuration	C	Normally Closed Valve	
	O	Normally Open Valve (GF40 only)	
	M	Meter (No Valve)	
V. Multiflo Bin & Range or Gas & Range (Standard)	XXXX XXXX	Specific Gas Code & Range, example: "0004" = Argon and "010L" = 10 slpm	
	SA40 010C	Standard Configuration #40: 3-10 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA41 030C	Standard Configuration #41: 11-30 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA42 092C	Standard Configuration #42: 31-92 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA43 280C	Standard Configuration #43: 93-280 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA44 860C	Standard Configuration #44: 281-860 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA45 2-4L	Standard Configuration #45: 841-2600 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA46 7-2L	Standard Configuration #46: 2401-7200 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA47 015L	Standard Configuration #47: 7201-15000 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA48 030L	Standard Configuration #48: 15001-30000 sccm N2 Eq. @ 0 deg C Ref Temp.	
	SA50 050L	Standard Configuration #50: 30001-50000 sccm N2 Eq. @ 0 deg C Ref Temp.	
	VI. Fitting	XX	9/16" - 18 UNF (GF40 Only)
		CK	1-1/8" C Seal 92mm (GF80 Only)
T1		1/8" tube compression (GF40 Only)	
T2		1/4" tube compression (GF40 Only)	
T3		3/8" tube compression (GF40 Only)	
T4		1/2" tube compression (GF40 Only)	
T6		6 mm tube compression (GF40 Only)	
T0		10 mm tube compression (GF40 Only)	
R2		1/4" RC (GF40 Only)	
VK		1/4" VCR (GF40, GF80)	
O2		1/4" VCO (GF40 Only)	
N2		1/4" NPT (GF40 Only)	
VII. Downstream Condition		A	Atmosphere
		V	Vacuum
	P	Positive Pressure	
VIII. External Seal, Valve Seat	B	Seal Buna / Seat Buna (GF40 Only)	
	F	Seal EPDM / Seat EPDM (GF40 Only)	
	K	Seal Kalrez / Seat Kalrez (GF40 Only)	
	N	Seal Neoprene / Seat Neoprene (GF40 Only)	
	V	Seal Viton / Seat Viton (GF40 Only)	
	M	Seal Metal / Seat PFA (GF40 Only)	
	Z	Seal Nickel / Seat Kalrez (GF80 Only)	
IX. Communications / Connector	PS	Profibus / Analog (Input 0-5 V; Output 0-5 V); 5-Pin Female D conn. / 15-Pin Male D conn.	
	PD	Profibus / Analog (Input 0-20 mA; Output 0-20 mA); 9-Pin Female D conn. / 15-Pin Male D conn.	
	PA	Profibus / Analog (Input 4-20 mA; Output 4-20 mA); 9-Pin Female D conn. / 15-Pin Male D conn.	
	ES	EtherCAT™ (Output 0-5 V); 2xRS485 signal 2-Pin power	
	D5	DeviceNet / Analog (Output 0-5 V); 5-Pin micro signal and power / 3-Pin analog signal	
	SS	RS485 (S-Protocol)/Analog (Input 0-5 V; Output 0-5 V); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	S1	RS485 (S-Protocol)/Analog (Input 0-10 V; Output 0-10 V); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	S0	RS485 (S-Protocol)/Analog (Input 0-20 mA; Output 0-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	S4	RS485 (D-Protocol)/Analog (Input 4-20 mA; Output 4-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	L5	RS485 (I-Protocol)/Analog (Input 0-5 V; Output 0-5 V); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	L1	RS485 (I-Protocol)/Analog (Input 0-10 V; Output 0-10 V); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	L0	RS485 (I-Protocol)/Analog (Input 0-20 mA; Output 0-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	L4	RS485 (I-Protocol)/Analog (Input 4-20 mA; Output 4-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	AS	RS485 (A-Protocol)/Analog (Input 0-5 V; Output 0-5 V); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	A1	RS485 (A-Protocol)/Analog (Input 0-10 V; Output 0-10 V); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	A0	RS485 (A-Protocol)/Analog (Input 0-20 mA; Output 0-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	AO	RS485 (A-Protocol)/Analog (Input 4-20 mA; Output 4-20 mA); 15-Pin Male D (Pin alignment with Brooks SLA 50)	
	X. Customer Special Request	XXXX	Customer Special Request Number
	XI. Auto Shut-Off	A	Auto Shut-Off (Included)
X		Auto Shut-Off (Not Included)	
XII. Auto Zero	A	Auto Zero (Included)	
	X	Auto Zero (Not Included)	
XIII. Reference Temperature	00C	0°C Reference	
	15C	15°C Reference	
	20C	20°C Reference	
	70F	21.1°C Reference / 70°F Reference	

Example Model Code

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
GF040	C	XX	C	-	001300C	-	T2	A	V	PS	-	XXXX
									X	X	A	-
												20C

MŰSZAKI ADATOK

Állapotjelzés	MFC-státusz, hálózati státusz
Betáplálás	DNet: + 11–25 V DC, 545 mA max. @ 11 V DC, 250 mA (max.) @ 24 V DC, analóg/RS485: + 15 V DC. (+10%), 6 W (max.)
Data	RS485, DeviceNet
Diagnosztikai/szervizport	RS-485 via 2.5mm jack
Differenciálynomás	3-860 ml/min = 7-45 psid, 861-7 200 ml/min = 10-45 psid, 7 201-55000 ml/min = 15-45 psid
Elektromos csatlakozás	Analóg/RS-485 9 pólusú „D” érintkezőn keresztül, DeviceNet™ 5 pólusú „M12”-n keresztül
Felületkiképzés	10 µm Ra
Hőmérsékleti együttható	Mérési tartomány: 0,005% F.S/°C, Nullapont: 0,001% F.S/°C
Jóváhagyások	CE, RoHS, SEMI F20 kompatibilis, EN61010-1, EN61326: 2006 (FCC Part 15 & Canada IC-subset of CE testing)
Kijelző	Felülre szerelt integrált LCD
Kijelző	Áramlás (%), hőm. (0 °C), nyomás (psia, kPa) / 0,1 (egység)
Külső szivárgás	1x10-10 atm. cc/sec He

