

## MASS FLOW CONTROLLER GF40

GF-40

Thermal Mass Flow Controller GF-40

- For all gases up to 10bar
- Elastomer sealed
- Service port aids device installation, monitoring and troubleshooting



### PRODUCT DESCRIPTION

Multiple gases in one device equals maximum process flexibility and productivity. The GF40 Series elastomer sealed mass flow controllers and meters with Brooks Instrument's exclusive MultiFlo™ technology provide the perfect choice for systems, processes and facilities that use a variety of gases, change gas types frequently or need to re-range while preserving gas measurement and control accuracy. It enables a new level of process flexibility combined with unprecedented flow measurement and control performance.

#### Features:

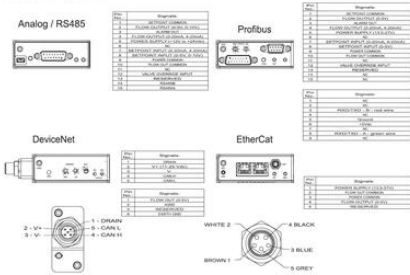
- Programmable multi-gas/multi-range capabilities
- Brooks® MultiFlo™ gas database contains thousands of native gas runs to establish correction functions
- Sub-1 second flow response time and accuracy of 1% set point for demanding applications
- Well suited for a variety of gases
- Fast response, Hastelloy sensor
- Easily accessible diagnostic service port is independent of tool communication
- Multi-protocol communication options include DeviceNet™, EtherCAT®, Profibus® and RS-485 analog interface

### SPECIFICATIONS

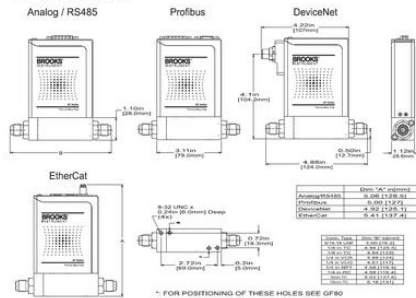
<b>Approvals</b>	CE, EN61010-1, EN61326: 2006 (FCC Part 15 & Canada IC-subset of CE testing), RoHS
<b>Burst Pressure</b>	275 bar
<b>Control range</b>	2-100 %
<b>Data</b>	RS485 (HART), DeviceNet, Profibus, EtherCat
<b>Diagnostics / Service Port</b>	Diagnostic/Service Port: RS485 via 2.5 mm jack
<b>Differential Pressure</b>	3-860 mln/min = 0,5-3 bar, 861-7200 mln/min = 1-3bar, 7201-55000 mln/min = 1,7-3bar
<b>Differential Pressure Max</b>	3 bar

Differential Pressure Min	0,5 bar
External Leakage	1x10 <sup>-9</sup> atm. cc/sec He
Lowest flow	0,003-50 l/min N <sub>2</sub>
Material of seals	Buna, EPDM, Kalrez, Neoprene, Viton
Materials Wetted Parts	Hastelloy, Stainless steel 17-7 PH, Stainless steel 316, Stainless steel 430
Op.	10 bar
Pressure Range Max	10 bar
Response time	< 1 s
Surface Finish	32 µm Ra
Temperature range from	5 °C
Temperature range of media from	5 °C
Temperature range of media to	50 °C
Temperature range to	50 °C
Valve type	NC/NO

**Base I/O Options**



**GF40 Configurations**



**Base I/O Options**

