

MV-102

MASS-VIEW® MV-102

Mass Flow Meter for gases with integrated display

- Direct thermal mass flow measurement
- High accuracy
- 10 pre-installed gases
- Bright, graphical OLED display
- Digital or analog output; alarm and counter functions

MASSFLOW-ONLINE PRODUCT



Gas Mass Flow Meters with integrated display

MASS-VIEW® model MV-102 Direct Thermal Mass Flow Meters (MFMs) are suited for precise measurement of flow ranges between 20...200 ml_n/min and 20...2000 ml_n/min at operating pressures up to 10 bar(g). The MFM has an integrated graphical OLED display, clearly visible at wide angles, which allows reading of actual flow (value and a bar graph), total flow and type of gas.

The display features easy set up via a user-friendly menu, using a 4-way navigation push button. The pre-installed gases eliminate the need to recalibrate for different gases and therefore reduce the cost of ownership. Additional features & functions include a variety of alarm and counter functions, an analog output signal, digital interfaces and two relay contacts.

The MASS-VIEW® series provides modern, novel and economical alternative to variable area meters (VA meters), also known as purge meters. Unlike conventional VA meters these new flow meters measure mass flow instead of volume flow.

Technische specificaties

Meet- / regelsysteem

Flowbereik (tussenliggende bereiken beschikbaar)	min. 20...200 ml _n /min max. 20...2000 ml _n /min (based on N ₂)
Nauwkeurigheid (incl. lineariteit) (gebaseerd op actuele kalibratie)	± 2% Rd for flow > 50% of max. capacity; ± (1% Rd + 0,5% FS) on lower flows
Herhaalbaarheid	< 0,2 % FS typical
Turndown ratio	up to 1 : 100
Bedrijfsdruk	0...10 bar(g) / 0...150 psi(g)
Druk coëfficiënt	± 0,2% Rd/bar typical at Air
Voorgeïnstalleerde gassen	Air, Ar, N ₂ , O ₂ , CO ₂ , CH ₄ , C ₃ H ₈ , N ₂ O, CO and C ₄ H ₁₀
Standaard kalibratie gas	Air, other gases are converted using our Fluidat® conversion model which will introduce extra inaccuracy
Responstijd (sensor)	2 sec.
Bedrijfstemperatuur	0 ... 50 °C (32 ... 122°F)
Temperatuurcoëfficiënt	Zero: <0,1% FS/°C, Span: <0,2% Rd/°C
Lekdichtheid, naar buiten	tested < 2 x 10 ⁻⁹ mbar l/s He
Standgevoeligheid	< 0,1 % FS

Mechanische delen

Materiaal (onderdelen die in contact komen met het medium)	Aluminium
Testdruk	21 bar(a) / 300 psi(a)
Procesaansluitingen	G 1/4" BSPP female thread (compression fittings optional)
Afdichtingen	Viton®
Gewicht	0,7 kg
Beschermingsgraad (behuizing)	IP40

Elektrische eigenschappen

Stroomvoorziening	+15 ... 24 Vdc (+/- 10%)
Max. stroomverbruik	approx. 135 mA
Analoog signaal	0 ... 5 Vdc
Digitale communicatie	RS232 / RS485 (Modbus RTU/ASCII)
Min. en max. relais contacten	switching current 0,5 A, 24 Vdc, one side grounded (0 Vdc power)
Elektrische aansluiting	8-pin RJ-45 modular jack

Technische specificaties kunnen zonder kennisgeving worden gewijzigd.

Voor technische maattekeningen en aansluitschema's bezoekt u de [productpagina](#) op onze [website](#)

Related products



MASS-VIEW® MV-302

Min. flow 20...200 mln/min
Max. flow 20...2000 mln/min
Pressure rating 10 bar
Bright, graphical OLED display
High quality needle valve



MASS-VIEW® MV-402

Min. flow 20...200 mln/min
Max. flow 20...2000 mln/min
Pressure rating 10 bar
Bright, graphical OLED display
Pressure compensated valve



MASS-VIEW® MV-192-H2

Min. flow 50...100 mln/min H2
Max. flow 50...1000 mln/min H2
Bright, graphical OLED display
Electr. output, alarm and counter



MASS-VIEW® MV-192-HE

Min. flow 50...200 mln/min He
Max. flow 50...2000 mln/min He
Bright, graphical OLED display
Electr. output, alarm and counter



BRONKHORST NEDERLAND

Lunet 10c

3905 NW Veenendaal

Tel. +31 (0)318 55 12 80

info@bronkhorst.nl