

# Breezens®

Accurate, Fast and Reliable

## HP MFM

High Pressure  
Mass Flow Meter



### Measurement Range

0 ... 10,20,50,100,200,500 (sccm)  
0 ... 1,2,5,10,20,50 (slm)  
Other Range up to 50slm (By Order)



### Operating Pressure

Max Inlet Pressure :  
40 (bar)  
<100 (bar) (By Order)  
Min  $\Delta P$ :  
0.1 to 0.5 (bar)  
<0.1 (bar) (By Order)



### Operating Gas

Air, N<sub>2</sub>, H<sub>2</sub>, Ar, O<sub>2</sub>  
Other Gases (By Order)



# HP MFM

High pressure  
Mass Flow Meter



## Measurement Range

0 ... 10,20,50,100,200,500 (sccm)  
0 ... 1,2,5,10,20,50 (slm)  
Other Range up to 50 (slm) (By Order)



## Accuracy

< ± 1.5% (FS)  
< ± 1% (FS) (By Order)



## Response Time

1.5 ... 2.5 (s)  
1 ... 1.5 (s) (By Order)



## Resolution

500  
1000 (By Order)



## Turndown

1:50  
<1:200 (By Order)



## Warm-up time

5 (min) for Acc. < ±2.0 (FS)  
45 (min) for Acc. < ±1.5 (FS)



## Power Supply

20 ... 25 (Volt)



## Power Consumption

< 2.8 (Watt)



## Electrical Connection

1 x 9 - pin Male Sub-D (DB9)  
EX Connector (By Order)



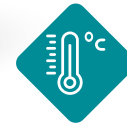
## Signal In & Out

0 ... 5 (Volt)  
4 ... 20 (mA) (By Order)  
Modbus (By Order)  
(RS485\_Auto Baud Rate)  
(RTU\_ASCII)



## Operating Gas

Air, N<sub>2</sub>, H<sub>2</sub>, Ar, O<sub>2</sub>  
Other Gases (By Order)



## Operating Temperature

-5 ... +70 (°C)



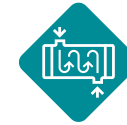
## Operating Pressure

Max Inlet Pressure :  
40 (bar)  
<100 (bar) (By Order)  
Min ΔP:  
0.1 to 0.5 (bar)  
<0.1 (bar) (By Order)



## Wet Parts

SS 304  
SS 316 & CRC\* (By Order)



## Seals

NBR  
Viton, EPDM, FVMQ (By Order)



## Mechanical Fitting

BSP: 1/4"  
Other (By Order)



## Dimensions

70x32x133 (mm)



## Weight

~500 (gr)

\* CRC: Corrosion Resistant Coating Part