



**Designer and manufacturer of
Flow sensors and controllers**

 ***Breezens***[®]

Accurate, Fast and Reliable



Accurate, Fast and Reliable

GP MFC

General Purpose
Mass Flow Controller



Measurement Range

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



Operating Pressure

1 ... 4 (bar)
0.5 ... 6 (bar) By Order



Operating Gas

Air, N₂, H₂, Ar, O₂
Other Gases By Order



GP MFC

General Purpose
Mass Flow Controller



Power Consumption

توان مصرفی
< 7.2 (Watt)



Signal In & Out

سیگنال ورودی و خروجی
0 ... 5 (Volt)
4 ... 20 (mA)



Electrical Connection

اتصال الکتریکی
DB9 (male)



Resolution

رزولوشن
500



Measurement Range

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



Accuracy

دقت اندازه‌گیری
< $\pm 1.5\%$ (FS)
< $\pm 1\%$ (FS) By Order



Response Time

پاسخ زمانی
1.5 ... 2.5 (second)
1 ... 1.5 (second) By Order



Turndown

بازه مفید عملکردی
1 : 50



Operating Gas

گاز کاری
Air, N₂, H₂, Ar, O₂
Other Gases By Order



Operating Pressure

فشار کاری
1 ... 4 (bar)
0.5 ... 6 (bar) By Order



Operating Temperature

دمای کاری
-5 ... +40 (°C) By Order



Warm-up time

زمان آمادگی به کار
< 45 (Minute)



Material

جنس مواد بدنه
Body: Stainless Steel 304 &
Aluminum



Mechanical Fitting

اتصالات مکانیکی
NPT – 1/4"
Ferrule – 1/4"
Other By Order



Seals

عایق‌بندی
NBR
Viton, Epdm By Order



Power Supply

ولتاژ تغذیه
20 ... 25 (Volt)



Accurate, Fast and Reliable

GP MFM

General Purpose
Mass Flow Meter



Measurement Range

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



Operating Pressure

1 ... 4 (bar)
0.2 ... 8 (bar) By Order



Operating Gas

Air, N₂, H₂, Ar, O₂
Other Gases By Order



GP MFM

General Purpose
Mass Flow Meter



Power Consumption

توان مصرفی
< 2.8 (Watt)



Signal In & Out

سیگنال ورودی و خروجی
0 ... 5 (Volt)
4 ... 20 (mA)



Electrical Connection

اتصال الکتریکی
DB9 (male)



Resolution

رزولوشن
500



Measurement Range

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



Accuracy

دقت اندازه گیری
< $\pm 1.5\%$ (FS)
< $\pm 1\%$ (FS) By Order



Response Time

پاسخ زمانی
1.5 ... 2.5 (second)
1 ... 1.5 (second) By Order



Turndown

بازه مفید عملکردی
1 : 50



Operating Gas

گاز کاری
Air, N₂, H₂, Ar, O₂
Other Gases By Order



Operating Pressure

فشار کاری
1 ... 4 (bar)
0.2 ... 8 (bar) By Order



Operating Temperature

دمای کاری
0 ... +50 (°C)
-5 ... +60 (°C) By Order



Warm-up time

زمان آمادگی به کار
< 45 (Minute)



Material

جنس مواد بدنه
Body: Stainless Steel 304



Mechanical Fitting

اتصالات مکانیکی
NPT – ¼"
Ferrule – ¼"
Other By Order



Seals

عایق بندی
NBR
Viton, Epdm by order



Power Supply

ولتاژ تغذیه
20 ... 25 (Volt)



Accurate, Fast and Reliable

HF MFM

High Flow
Mass Flow Meter



Measurement Range

0 ... 6, 12, 30, 60, 120, 300 (m³/h)
By order up to 6000 (m³/h)



Operating Pressure

1 ... 40 (bar)
0.5 ... 60 (bar) By Order



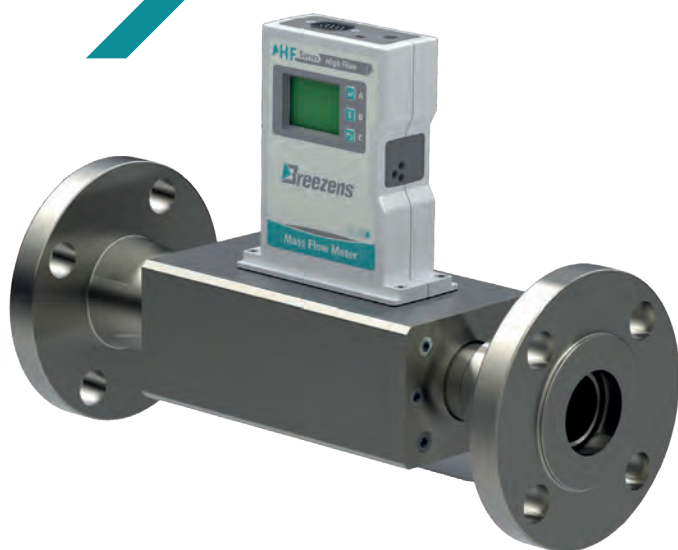
Operating Gas

Air, N₂, H₂, Ar, O₂
Other Gases By Order



HF MFM

High Flow
Mass Flow Meter



Power Consumption

توان مصرفی
2.8 (Watt)



Signal In & Out

سیگنال ورودی و خروجی
0 ... 5 (Volt)
4 ... 20 (mA)



Electrical Connection

اتصال الکتریکی
DB9 (male)



Resolution

رزولوشن
500



Measurement Range

بازه اندازه گیری
0 ... 6,12,30,60,120,300 (m³/h)
By order up to 6000 (m³/h)



Accuracy

دقت اندازه گیری
< ±1.5% (FS)
< ±1% (FS) By Order



Response Time

پاسخ زمانی
1.5 ... 2.5 (second)
1 ... 1.5 (second) By Order



Turndown

بازه مفید عملکردی
1 : 50



Operating Gas

گاز کاری
Air, N₂, H₂, Ar, O₂
Other Gases By Order



Operating Pressure

فشار کاری
1 ... 40 (bar)
0.5 ... 60 (bar) By Order



Operating Temperature

دمای کاری
0 ... +50 (°C)
-5 ... +60 (°C) By Order



Warm-up time

زمان آمادگی به کار
< 45 (Minute)



Material

جنس مواد بدنه
Body: Stainless Steel 304 &
Aluminum



Mechanical Fitting

اتصالات مکانیکی
NPT – ½" – ¾" – 1"
Flange – ½" – ¾" – 1"
Other By Order



Seals

عایق بندی
NBR
Viton, Epdm By Order



Power Supply

ولتاژ تغذیه
20 ... 25 (Volt)



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