

HØJ TEMPERATUR, ULTRA HØJ RENHED, KOMPAKT, LABORATORIUM, VAPOR, SEMICONDUCTOR

Metaltætnet Mass Flow Controller og Meter -
 MFC/MFM - GF120XHF Serien

GF120XHT
 50 Sccm - 100 Nlpm

- Max Temperatur: 150°C
- Nøjagtighed: +/- 1%
- Flowområde: 50 sccm - 100 nlpm
- Fås både med Analog og Digital kommunikation
- Max tryk: 34 Barg



PRODUKTBESKRIVELSE

GF120xHT-serien

Metaltætnet højtemperatur-termiske masseflowkontrollere og -målere Højren flow. Enestående ydeevne og pålidelighed til højtemperaturapplikationer.

GF120xHT højtemperatur-masseflowkontrollere (MFC'er) og målere (MFM) er designet til at styre og måle masseflowet af damp, flydende eller faste kilder. For at understøtte den stigende anvendelse af disse forløbere i halvlederfremstillingsprocesser.

Flowmodulet på GF120xHT kan modstå driftsmiljøer på op til 150°C. For at understøtte dette temperaturområde er elektronikken tilsluttet fjernbetjening til resten af enheden og monteret på et sted med lavere temperatur (maks. 50°C).

Den fjernstyrede elektronik kan monteres med en DIN-montering med valg af tre forskellige kabellængder til forbindelse - standard 3 ft, 8 ft og 16,5 ft. Det brede udvalg af kommunikationsprotokoller og monteringsmuligheder gør GF120xHT til et ideelt valg til næste generations procesudstyr og opgradering til ældre opvarmede MFC'er.

Applikationer

- Advanced Strip Processes
- Atomic Layer Deposition (ALD)
- Deposition

Fordele

- Understøtter applikationer op til 150°C for levering af flydende forløberdamp.
- Brugervenligt diagnoseinterface understøtter procesingeniør i at sikre, at MFC'en opererer inden for de specificerede grænser for høj udbytte og maksimal opetid.
- Tilbyder uovertruffen langvarig sensorstabilitet for maksimal gennemløb og udbytte.
- Kalibreret ved kundens driftstemperatur og tryk for optimal ydeevne.

Electrical Interface Options

Adapter Cables with Base I/O Option



A range of low profile adapter cables have been developed to support replacing older generation MFC's with different pinout configurations. The base MFC will be with a G1, G2 or SX configuration.

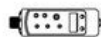
Model Code Option: G1	Model Code Option: G2
Pin Description	Pin Description
1 Value Control	1 Value Control
2 Output (0-3 Vdc)	2 Output (0-3 Vdc)
3 15 Vdc - 24 Vdc	3 15 Vdc - 24 Vdc
4 Per Comp - NC	4 Per Comp - NC
5 Signal Common	5 Signal Common
6 15 Vdc - 24 Vdc	6 15 Vdc - 24 Vdc
7 RS-485 (D+) / RS-485 (D-)	7 RS-485 (D+) / RS-485 (D-)
8 RS-485 (D+) / RS-485 (D-)	8 RS-485 (D+) / RS-485 (D-)
9 RS-485 (D+) / RS-485 (D-)	9 RS-485 (D+) / RS-485 (D-)

Model Code Option: G1X	Model Code Option: G2X
Pin Description	Pin Description
1 Value Control	1 Value Control
2 Output (0-3 Vdc)	2 Output (0-3 Vdc)
3 15 Vdc - 24 Vdc	3 15 Vdc - 24 Vdc
4 Per Comp - NC	4 Per Comp - NC
5 Signal Common	5 Signal Common
6 15 Vdc - 24 Vdc	6 15 Vdc - 24 Vdc
7 RS-485 (D+) / RS-485 (D-)	7 RS-485 (D+) / RS-485 (D-)
8 RS-485 (D+) / RS-485 (D-)	8 RS-485 (D+) / RS-485 (D-)
9 RS-485 (D+) / RS-485 (D-)	9 RS-485 (D+) / RS-485 (D-)

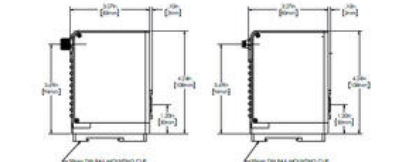
Model Code Option: G1XW	Model Code Option: G2XW
Pin Description	Pin Description
1 Value Control	1 Value Control
2 Output (0-3 Vdc)	2 Output (0-3 Vdc)
3 15 Vdc - 24 Vdc	3 15 Vdc - 24 Vdc
4 Per Comp - NC	4 Per Comp - NC
5 Signal Common	5 Signal Common
6 15 Vdc - 24 Vdc	6 15 Vdc - 24 Vdc
7 RS-485 (D+) / RS-485 (D-)	7 RS-485 (D+) / RS-485 (D-)
8 RS-485 (D+) / RS-485 (D-)	8 RS-485 (D+) / RS-485 (D-)
9 RS-485 (D+) / RS-485 (D-)	9 RS-485 (D+) / RS-485 (D-)

Other adapter options are available for the CP Series. Please contact Customer Service for more information.

DEVICENET



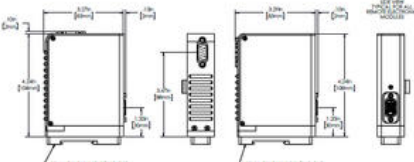
ETHERCAT



ANALOG/RS485 MODEL CODE OPTION: G1/GX



ANALOG/RS485 with VTP MODEL CODE OPTION: SX



VCR



DOWNPORT



Pinning Option Code	Dim A	Dim B	Dim C	Dim D	Dim E	Dim F
V1	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V2	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V3	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V4	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V5	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V6	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V7	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)

Electrical Interface Options

Adapter Cables with Base I/O Option



A range of low profile adapter cables have been developed to support replacing older generation MFC's with different pinout configurations. The base MFC will be with a G1, G2 or SX configuration.

Model Code Option: G1	Model Code Option: G2
Pin Description	Pin Description
1 Value Control	1 Value Control
2 Output (0-3 Vdc)	2 Output (0-3 Vdc)
3 15 Vdc - 24 Vdc	3 15 Vdc - 24 Vdc
4 Per Comp - NC	4 Per Comp - NC
5 Signal Common	5 Signal Common
6 15 Vdc - 24 Vdc	6 15 Vdc - 24 Vdc
7 RS-485 (D+) / RS-485 (D-)	7 RS-485 (D+) / RS-485 (D-)
8 RS-485 (D+) / RS-485 (D-)	8 RS-485 (D+) / RS-485 (D-)
9 RS-485 (D+) / RS-485 (D-)	9 RS-485 (D+) / RS-485 (D-)

Model Code Option: G1X	Model Code Option: G2X
Pin Description	Pin Description
1 Value Control	1 Value Control
2 Output (0-3 Vdc)	2 Output (0-3 Vdc)
3 15 Vdc - 24 Vdc	3 15 Vdc - 24 Vdc
4 Per Comp - NC	4 Per Comp - NC
5 Signal Common	5 Signal Common
6 15 Vdc - 24 Vdc	6 15 Vdc - 24 Vdc
7 RS-485 (D+) / RS-485 (D-)	7 RS-485 (D+) / RS-485 (D-)
8 RS-485 (D+) / RS-485 (D-)	8 RS-485 (D+) / RS-485 (D-)
9 RS-485 (D+) / RS-485 (D-)	9 RS-485 (D+) / RS-485 (D-)

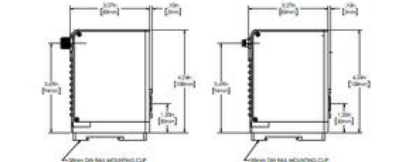
Model Code Option: G1XW	Model Code Option: G2XW
Pin Description	Pin Description
1 Value Control	1 Value Control
2 Output (0-3 Vdc)	2 Output (0-3 Vdc)
3 15 Vdc - 24 Vdc	3 15 Vdc - 24 Vdc
4 Per Comp - NC	4 Per Comp - NC
5 Signal Common	5 Signal Common
6 15 Vdc - 24 Vdc	6 15 Vdc - 24 Vdc
7 RS-485 (D+) / RS-485 (D-)	7 RS-485 (D+) / RS-485 (D-)
8 RS-485 (D+) / RS-485 (D-)	8 RS-485 (D+) / RS-485 (D-)
9 RS-485 (D+) / RS-485 (D-)	9 RS-485 (D+) / RS-485 (D-)

Other adapter options are available for the CP Series. Please contact Customer Service for more information.

DEVICENET



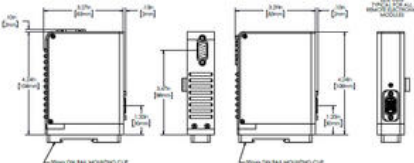
ETHERCAT



ANALOG/RS485 MODEL CODE OPTION: G1/GX



ANALOG/RS485 with VTP MODEL CODE OPTION: SX



VCR



DOWNPORT



Pinning Option Code	Dim A	Dim B	Dim C	Dim D	Dim E	Dim F
V1	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V2	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V3	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V4	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V5	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V6	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)
V7	40mm (2.75in)	40mm (2.75in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)	18mm (0.70in)