

# Master-Touch™ MP Series

Manufacturing process applications typically require accurate and dependable flow measurement in a rugged, industrial-strength package. Our MP Series is the answer to this demand. Available in a variety of configurations to meet virtually any situation, the MP Series is the instrument of choice through the world. All MP Series flow transmitters include explosion-proof enclosures for use in hazardous areas. The remote signal processor enclosures are for use in non-hazardous area locations.

## Series 8000MP-8100MP

Master-Touch™ Series 8000MP-8100MP flowmeters are inline style instruments with the flow transmitter mounted on the flow section and the signal processor electronics remotely mounted in a separate enclosure. Input power is supplied to the remote electronics. This configuration uses only a two-wire connection between the flow



transmitter and the signal processor. Flow sections for pipes ¾" and larger have flow straightening screens as standard. Flow sections for pipes up to 2½" have MNPT ends as standard; flow sections for pipes 3" and up have ANSI 150lb. Class flanges as standard. Depending on the line size, a variety of alternatives are available, including ANSI 300lb. and DIN flanges, butt ends, sanitary fittings, etc.

## Series 8200MP

Master-Touch™ Series 8200MP flowmeters are insertion style instruments with the flow transmitter mounted on the sensor probe assembly and the signal processor electronics remotely mounted in a separate enclosure. This configuration uses only a two-wire connection between the flow transmitter



and the signal processor. A variety of installation options are available, including ball valve retractor assemblies, tube to pipe compression fittings, and probe mounted flanges. Input power is supplied to the remote electronics.

## Series 8600MP-8700MP

Master-Touch™ Series 8600MP-8700MP flowmeters are inline style instruments with all electronics mounted integrally on the flow section. All input power and signal

output connections are accessible through the double-sided enclosure. Flow sections for pipes ¾" and larger have flow straightening screens as standard. Flow sections for pipes up to 2½" have MNPT



ends as standard; flow sections for pipes 3" and up have ANSI 150lb. Class flanges as standard. Depending on the line size, a variety of alternatives are available, including ANSI 300lb. and DIN flanges, butt ends, sanitary fittings, etc.

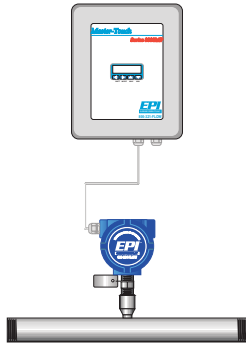
## Series 8800MP

Master-Touch™ Series 8800MP flowmeters are insertion style instruments with all electronics mounted integrally on the sensor probe assembly. All input power and signal output connections are accessible through the double-sided enclosure. A variety of installation options are available, including ball valve retractor assemblies, tube to pipe compression fittings, and probe mounted flanges.





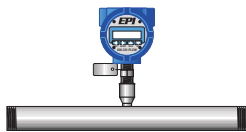
## Series 8000–8100MP



## Series 8200MP



## Series 8600–8700MP



## Series 8800MP



## Specifications

Linear signal output	0-5 VDC & 4-20 mA
Relay Output	Two 1-amp, user-selectable alarm functions
Signal Interface	RS232 & RS485
Accuracy, including linearity (Ref.: 21°C) with ideal flow profile	±[1% of Rdg + (0.5% + .02%/°C of Full Scale)]
Repeatability	±0.2% of Full Scale
Sensor response time	1 second (time constant per step change)
Turn down ratio	1000:1 (15 SCFM/FT <sup>2</sup> minimum Reading)
Electronics temperature range	0°–50°C (32°–122°F); extended temperature optional
Gas temperature range available, consult factory	-40°–66°C (-40°–150°F); extended range
Gas pressure effect	Negligible over ± 20% of absolute calibration pressure
Pressure rating maximum	Ambient to 500 PSIG standard; higher pressures, consult factory
Input power requirement	24VDC @ 250mA 115 VAC 50/60 Hz optional 230 VAC 50/60 Hz optional
Flow Transmitter power requirements	5 watts or less
Wetted materials optional)	316 Stainless Steel (Hastelloy and Monel)
Standard temperature & pressure (STP)	70°F & 29.92" Hg (Air .075 lb./cubic foot)
NIST traceable calibration	Standard

For use in hazardous area locations: Class I Division 1 Groups B, C and D; Class II E, F and G; Class III; Type 4X, 7; Ex d IIC; AEx d IIC, IP66; EEx d IIC, IP66; T2 (consult factory for T3 or T4).

Certified to US requirements: Certified to Canadian requirements 

Certified to European ATEX requirements   II 2 GD KEMA 04 ATEX 2276

Remote Enclosure (Series 8000MP– 8200MP) for use in Ordinary (Non-Hazardous) area locations: Type 4X, IP66

Series 8000MP-8100MP			Series 8600MP-8700MP		
Model	Pipe OD" x L"	Max SCFM	Model	Pipe OD" x L"	Max SCFM
8036MP-SSS-133	1/4 x 6	3.50	8636MP-SSS-133	1/4 x 6	3.50
8049MP-SSS-133	3/8 x 6	6.00	8649MP-SSS-133	3/8 x 6	6.00
8059MP-SSS-133	1/2 x 7	13.0	8659MP-SSS-133	1/2 x 7	13.0
8069MP-SSS-133	3/4 x 7	60.0	8669MP-SSS-133	3/4 x 7	60.0
8089MP-SSS-133	1 x 8	90.0	8689MP-SSS-133	1 x 8	90.0
8110MP-SSS-133	1¼ x 10	150	8710MP-SSS-133	1¼ x 10	150
8112MP-SSS-133	1½ x 15	200	8712MP-SSS-133	1½ x 15	200
8116MP-SSS-133	2 x 20	350	8716MP-SSS-133	2 x 20	350
8120MP-SSS-133	2½ x 25	500	8720MP-SSS-133	2½ x 25	500
8124MP-SSS-133	3 x 30	750	8724MP-SSS-133	3 x 30	750
8132MP-SSS-133	4 x 40	1350	8732MP-SSS-133	4 x 40	1350

Series 8200MP			Series 8800MP		
Model	Probe OD"	Max L"	Model	Probe OD"	Max L"
8240MP-SSS-133	1/2	36	8840MP-SSS-133	1/2	36
8260MP-SSS-133	3/4	60	8860MP-SSS-133	3/4	60
8280MP-SSS-133	1	84	8880MP-SSS-133	1	84