



**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. The standard configuration includes a 2-line, 16-character display and LightWIRE™ infrared communications capability. 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 DN flanges, butt ends, tri-clover fittings, etc. Consult factory for details.

**Specifications**

Linear signal output .....	0–5 VDC & 4–20 mA
Signal Interface .....	RS232 & RS485
Accuracy, including linearity (Ref.: 21°C)* .....	±[1% of Reading + (.5% + .02%/°C of Full Scale)]
Repeatability .....	±0.2% of Full Scale
Sensor response time .....	1 second
Turn down ratio .....	100:1 minimum
Electronics temperature range.....	0°–50°C (32°–122°F), extended temperature optional
Gas temperature range* .....	–40°–200°C (–40°–392°F), extended range available
Gas pressure effect.....	Negligible over ± 20% of absolute calibration pressure
Pressure rating maximum .....	500 PSI Std., > 500 PSI special
Input power requirement .....	24VDC @ 250mA 115 VAC 50/60 Hz optional 230 VAC 50/60 Hz optional
Flow Transmitter power requirements .....	5 watts maximum
Wetted materials .....	316 Stainless Steel (Hastelloy and Monel optional)
Standard temperature & pressure (STP).....	70°F & 29.92" Hg (Air .075 lb./cubic foot)
NIST traceable calibration .....	Standard

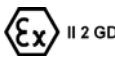
Flow Transmitter enclosure:

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



KEMA 04 ATEX 2276

Remote Enclosure for use in Ordinary (Non-Hazardous) area locations: Type 4X, IP66

\* The accuracy specification applies to the instrument only. EPI is not responsible for measurement errors due to flow profile irregularities caused by installation piping configurations, corrosion on inner pipe surfaces, valve placement, etc.

\*\*SSM option required for 100°–200°C (212°–392°F)

Specifications subject to change without notice.

