Master-Touch™ MPNH Series

In many industries the need for monitoring gas flow does not involve hazardous gases or potentially dangerous operating conditions. These applications can include many water and wastewater treatment applications, the HVAC industry, the general use of compressed air, and many other applications using air, nitrogen, argon, etc. In these cases, an explosion-proof electronics enclosure is not required, and may be considered a needless expense. To meet this challenge, Eldridge Products, Inc. now offers the Master-Touch™ Family of microprocessor-based thermal gas mass flowmeters in an economical configuration intended for use in non-hazardous area locations.

Series 8000MPNH-8100MPNH

Master-Touch™ Series 8000MPNH-8100MPNH flowmeters are inline style flowmeters 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 have MNPT ends as standard. Depending on the line size, a variety of alternatives are available, including ANSI and DIN flanges, butt ends, sanitary fittings, etc.

Series 8200MPNH

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

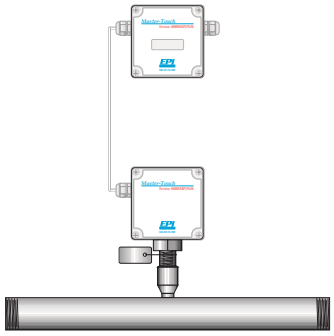
Series 8600MPNH-8700MPNH

Master-Touch™ Series 8600MPNH-8700MPNH flowmeters are inline style flowmeters with all electronics mounted integrally on the flow section. Flow sections for pipes ¾" and larger have flow straightening screens as standard. Flow sections have MNPT ends as standard. Depending on the line size, a variety of alternatives are available, including ANSI 300lb. and DN flanges, butt ends, sanitary fittings, etc.

Series 8800MPNH

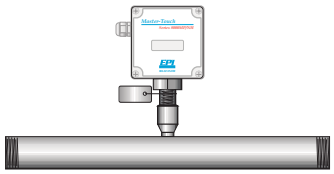
Master-Touch™ Series 8800MPNH flowmeters are insertion style flowmeters with all electronics mounted integrally on the sensor probe assembly. A variety of installation options are available, including ball valve retractor assemblies, tube to pipe compression fittings, and probe mounted flanges.

Series 8000–8100MPNH



Series 8200MPNH

Series 8600–8700MPNH



Series 8800MPNH

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 Reading + (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^2 minimum Reading
Electronics temperature range	0°–50°C (32°–122°F);
Electronics temperature range	0°–50°C (32°–122°F); extended tempera ture 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	316 Stainless Steel
Standard temperature & pressure (STP)	70°F & 29.92" Hg (Air .075 lb./cubic foot)
NIST traceable calibration	Standard

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

Certified to US requirements; Certified to Canadian requirements

Series 8000MPNH-8100MPNH		Max
Model	Pipe OD" x L"	SCFM
8036MPNH-SSS-133	1/4 x 6	3.50
8049MPNH-SSS-133	3/8 x 6	6.00
8059MPNH-SSS-133	1/2 x 7	13.0
8069MPNH-SSS-133	3/4 x 7	60.0
8089MPNH-SSS-133	1 x 8	90.0
8110MPNH-SSS-133	1¼ x 10	150
8112MPNH-SSS-133	1½ x 15	200
8116MPNH-SSS-133	2 x 20	350
8120MPNH-SSS-133	2½ x 25	500
8124MPNH-SSS-133	3 x 30	750
8132MPNH-SSS-133	4 x 40	1350

Series 8600MPNH-8700MPNH		Max
Model	Pipe OD" x L"	SCFM
8636MPNH-SSS-133	1/4 x 6	3.50
8649MPNH-SSS-133	3/8 x 6	6.00
8659MPNH-SSS-133	1/2 x 7	13.0
8669MPNH-SSS-133	3/4 x 7	60.0
8689MPNH-SSS-133	1 x 8	90.0
8710MPNH-SSS-133	1¼ x 10	150
8712MPNH-SSS-133	1½ x 15	200
8716MPNH-SSS-133	2 x 20	350
8720MPNH-SSS-133	2½ x 25	500
8724MPNH-SSS-133	3 x 30	750
8732MPNH-SSS-133	4 x 40	1350

Series 8200MPNH		
Model	Probe OD"	Max L"
8240MPNH-SSS-133	1/2	36
8260MPNH-SSS-133	3/4	60
8280MPNH-SSS-133	1	84

Series 8800MPNH		
Model	Probe OD"	Max L"
8840MPNH-SSS-133	1/2	36
8860MPNH-SSS-133	3/4	60
8880MPNH-SSS-133	1	84