Gas Mass Flow Measurement & Control Instrumentation



Master-TouchTM

















Series 8800MP Flowmeters



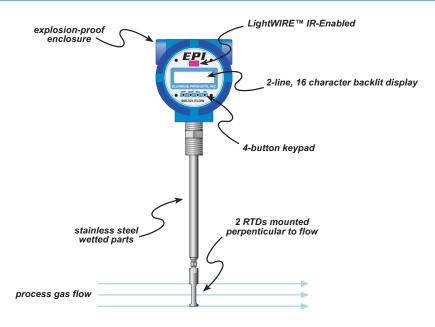








A forced null Wheatstone Bridge preferentially heats one RTD. The second RTD acts as a temperature reference by taking on the temperature of the flowing gas. The resistance ratios are maintained through the Wheatstone Bridge to compensate for the dynamic changes in process temperature. By maintaining a constant temperature difference between the RTDs, EPI can measure the amount of heat dissipated by the flowing gas. As heat is dissipated, more power is used to maintain the constant temperature. The power demand is directly proportional to the gas mass flow rate, allowing our sensors to measure the gas molecular rate of flow without further compensation for outside effects. EPI's standard flow sensors can respond to flow velocities as low as 15 feet per minute and as high as 45,000 feet per minute for most gases. Consult our factory or a local sales representative for details.



INSERTION style thermal mass flowmeters include a sensor probe assembly that is inserted into the process gas flow conduit to allow the process gas to flow across the flow sensing elements. Our insertion style flowmeters are available with 1/2", 3/4", or 1" OD probes and may be installed with pipe fitting connections or user-supplied bored through tube fittings. Tube fittings and ball valve retractor assemblies, with or without a mounting flange, are also available from the factory as options. The tube length must be specified upon ordering. Standard lengths range from a minimum of 6" to a maximum of 36". For other probe diameters and lengths, please consult the factory.

INTEGRAL style thermal mass flow meters have all of the electrical components and connections located within one enclosure. The enclosure is explosion-proof cast aluminum NEMA 4X. The enclosure is mounted directly to the inline flow section or to the insertion probe assembly at the point of measurement.

TYPICAL APPLICATIONS FOR MASTER-TOUCH™ FLOWMETERS:

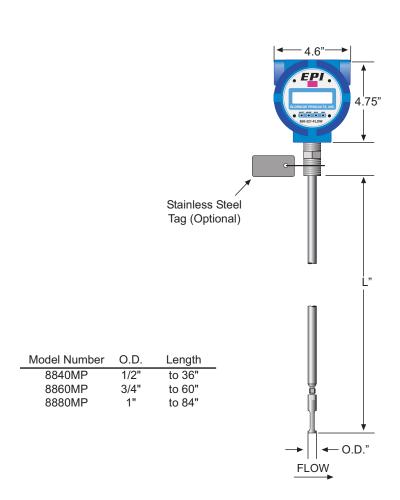
AUTOMOTIVE INDUSTRY Compressed Air monitoring * Natural Gas consumption * Powder paint air flow * Paint booth/paint oven ventilation

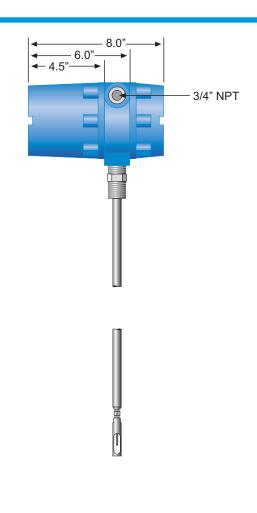
UTILITY SERVICES Stack or Flue Gas * Wastewater aeration * Ventilation systems * Digester Gas * Gas flows * Nitrogen purge * Combustion air * Boiler inlet air

FOOD PROCESSING Drying air * Ventilation systems * Boiler inlet air * Exhaust gas * Process control * Compressor lines * HVAC Air balancing * Duct flows * Energy conservation * Fume hoods * Cleanrooms * Laminar flow benches

LABORATORY AND R & D Flow research * Biomedical studies * University studies * Toxicology studies * Energy studies * Industrial Hygiene * Occupational Safety * Experimentation

PETROLEUM & GAS INDUSTRIES Custody transfer * Landfill Gas recovery * Flare Gas measurement * Gas mixing * Gas quality studies * Leak testing





SPECIFICATIONS

Linear signal output Signal Interface

Accuracy, including linearity (Ref.: 21°C)*

Repeatability

Sensor response time

Turn down ratio

Electronics temperature range

Gas temperature range**

Gas pressure effect

Pressure rating maximum

Input power requirement

Flow Transmitter power requirements

Wetted materials

Standard temperature & pressure (STP)

NIST traceable calibration

0-5 VDC & 4-20 mA

RS232 & RS485 Modbus RTU

±[1% of Reading + (.5% + .02%/°C of Full Scale)]

±0.2% of Full Scale

1 second

100:1 minimum

-40°-85°C (-40°-185°F)

 -40° –200°C (-40° –392°F), extended range available

Negligible over ± 20% of absolute calibration pressure

500 PSI Std., > 500 PSI special

24VDC @ 250mA

115 VAC 50/60 Hz optional 230 VAC 50/60 Hz optional

5 watts maximum

316 Stainless Steel (Hastelloy optional)

70°F & 29.92" Hg (Air .075 lb./cubic foot)

Standard

APPROVALS

MP Series Flow Transmitter — 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; Ex d IIB + H2; AEx d IIB + H2, IP66; EEx d IIB + H2, IP66; T2 (consult factory for T3 or T4).

Certified to US requirements; Certified to Canadian requirements

Certified to European ATEX requirements

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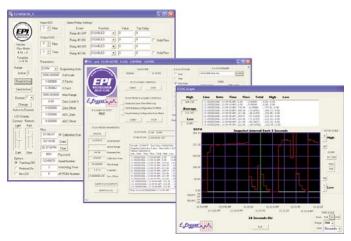
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ule replaces the three-wire cable for communications with an IR-Enabled Master-TouchTM flowmeter. The LightWIRE Communicator II hand-held module is a substitute for the keypad/display assembly of IR-Enabled Master-TouchTM flowmeters. Access all of the flowmeters functions without removing the flowmeter's enclosure cover with the Communicator II module.





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Master-Touch™ flowmeters which have v4.1A or higher software. The user can select from a set of categories for the data collection, the time interval for each data "snapshot" and, if necessary, programmed start and stop times. The data is stored on either the flowmeter or a PC. E-Logger will also graph the data, and it provides tools for analysis of the data. Data files stored on a PC can be accessed by most common spreadsheet applications.

LIMITED WARRANTY

Eldridge Products, Inc. (EPI) warrants its products to be free from defects in materials and workmanship for one year from the date of factory shipment. If there is a defect, the purchaser must notify EPI of the defect within the warranty period. Upon receipt of the defective product, EPI will either repair or replace the defective product at its sole option and at no cost to the purchaser. EPI MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AS TO THE PRODUCTS. EPI MAKES NO WARRANTY THAT THE GOODS SOLD TO ANY PURCHASER ARE FIT FOR ANY PARTICULAR PURPOSE. FURTHERMORE, EPI MAKES NO WARRANTY OF MERCHANTABILITY WITH RESPECT TO ANY PRODUCTS SOLD TO ANY PURCHASERS. There are no other warranties that extend beyond the description on any brochure or price quote.

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Eldridge Products, Inc.

Gas Mass Flow Measurement & Control Instrumentation



Master-TouchTM

















Series 8600MP-8700MP Flowmeters

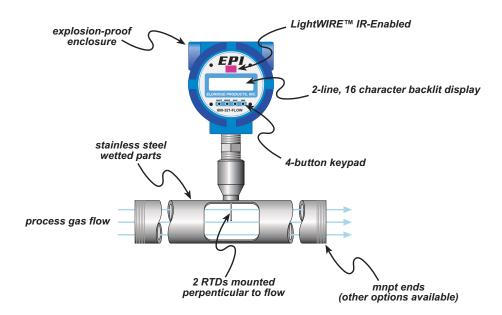








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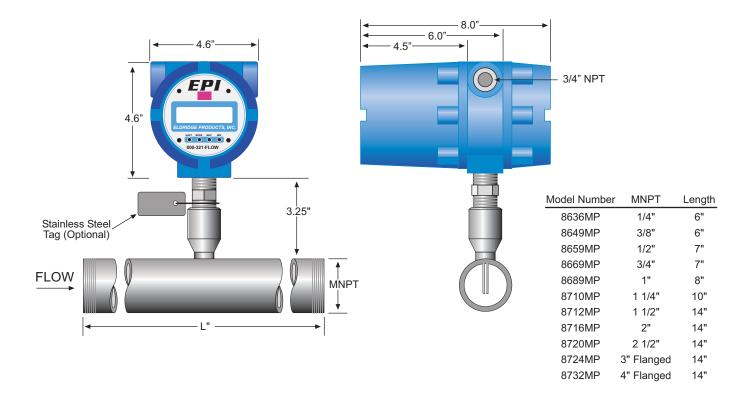
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Accuracy, including linearity (Ref.: 21°C)*

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Turn down ratio

Electronics temperature range

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Pressure rating maximum

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Flow Transmitter enclosure

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0-5 VDC & 4-20 mA

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±[1% of Reading + (.5% + .02%/°C of Full Scale)]

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100:1 minimum

-40°-85°C (-40°-185°F)

 $-40^{\circ}-200^{\circ}$ C ($-40^{\circ}-392^{\circ}$ F), extended range available

Negligible over ± 20% of absolute calibration pressure

500 PSI Std., > 500 PSI special

24VDC @ 250mA

115 VAC 50/60 Hz optional

230 VAC 50/60 Hz optional

5 watts maximum

NEMA 4X, ABS plastic with clear polycarbonate cover,

5" x 5" x 4"

316 Stainless Steel (Hastelloy optional)

70°F & 29.92" Hg (Air .075 lb./cubic foot)

Standard

APPROVALS

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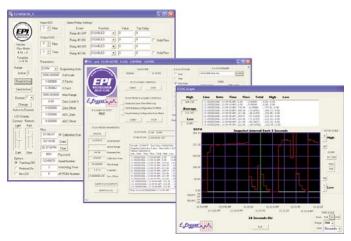
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Eldridge Products, Inc.

Gas Mass Flow Measurement & Control Instrumentation





















Series 8200MP Flowmeters



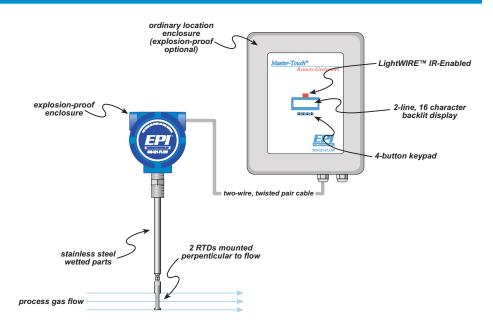








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REMOTE style thermal mass flowmete: utilize two enclosures. One enclosure mounted at the point of measurement on the flow section or on the probe assen bly. This enclosure may be rated for eithe hazardous environments or for ordinar non-hazardous environments, as neces sary. The second (remote) enclosure usually placed in a readily accessible loca tion rated for non-hazardous condition (Contact the factory for information cor cerning remote explosion-proof enclo sure). The remote enclosure includes the all of the electrical connections as well a the linearizing electronics and the diplay/keypad assembly. Only a two-wir twisted-pair cable is required to carry th input power and flow signal between th two enclosures.

TYPICAL APPLICATIONS FOR MASTER-TOUCH™ FLOWMETERS:

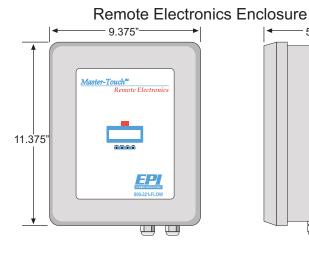
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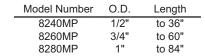
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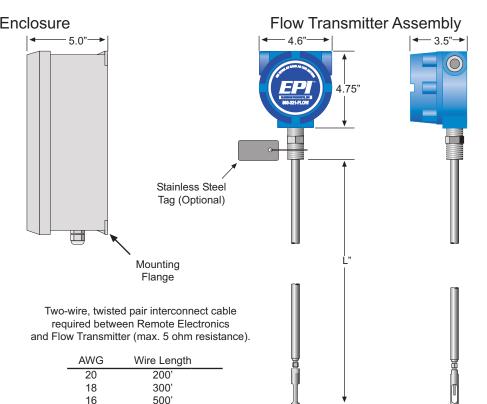
FOOD PROCESSING Drying air * Ventilation systems * Boiler inlet air * Exhaust gas * Process control * Compressor lines * HVAC Air balancing * Duct flows * Energy conservation * Fume hoods * Cleanrooms * Laminar flow benches

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Input power requirement

Flow Transmitter power requirements

RAM Back-up

Wetted materials

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0-5 VDC & 4-20 mA

RS232 & RS485

 \pm [1% of Reading + (.5% + .02%/°C of Full Scale)]

FLOW

O.D."

±0.2% of Full Scale

1 second

800'

1250'

100:1 minimum

-40°-85°C (-40°-185°F)

 -40° – 200°C (-40° – 392°F), extended range available

Negligible over ± 20% of absolute calibration pressure

500 PSI Std., > 500 PSI special

24VDC @ 250mA

115 VAC 50/60 Hz optional

230 VAC 50/60 Hz optional

5 watts maximum

Lithium Battery

316 Stainless Steel (Hastelloy optional)

70°F & 29.92" Hg (Air .075 lb./cubic foot)

Standard

APPROVALS

MP Series Flow Transmitter — For use in hazardous area locations: Class I Division 1 Groups B, C and D; Class II E, F and G;

14

12

Class III; Type 4X; Ex d IIC; AEx d IIC, IP66; EEx d IIC, IP66; T2 (consult factory for T3 or T4).

MP Series Remote Enclosure — For use in Ordinary (Non-Hazardous) area locations: Type 4X, IP66

Certified to US requirements; Certified to Canadian requirements

Certified to European ATEX requirements

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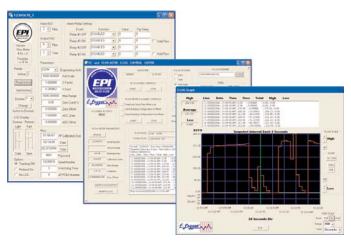
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Master-TouchTM



Series 8000MP-8100MP Flowmeters

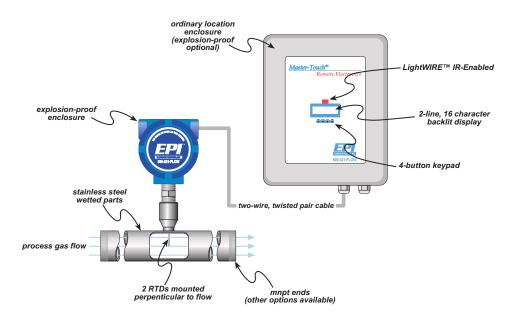








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TYPICAL APPLICATIONS FOR MASTER-TOUCH™ FLOWMETERS:

AUTOMOTIVE INDUSTRY Compressed Air monitoring * Natural Gas consumption * Powder paint air flow * Paint booth/paint oven ventilation

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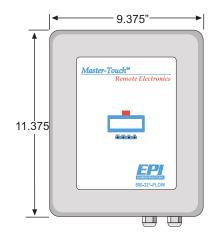
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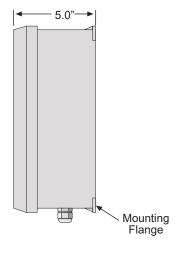
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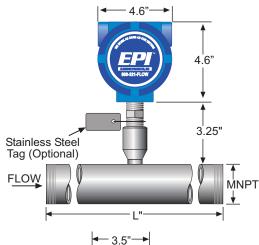
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Remote Electronics Enclosure

Flow Transmitter Assembly







Model Number	MNPT	Length
8036MP	1/4"	6"
8049MP	3/8"	6"
8059MP	1/2"	7"
8069MP	3/4"	7"
8089MP	1"	8"
8110MP	1 1/4"	10"
8112MP	1 1/2"	14"
8116MP	2"	14"
8120MP	2 1/2"	14"
8124MP	Flanged	14"
8132MP	Flanged	14"
8148MP	Flanged	14"

Two-wire, twisted pair interconnect cable required between Remote Electronics and Flow Transmitter (max. 5 ohm resistance).

AWG	Wire Length
20	200'
18	300'
16	500'
14	800'
12	1250'

3/4" NPT

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24VDC @ 250mA

115 VAC 50/60 Hz optional

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Lithium Battery

316 Stainless Steel (Hastelloy optional)

70°F & 29.92" Hg (Air .075 lb./cubic foot)

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MP Series Flow Transmitter — 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; Ex d IIB + H2; AEx d IIB + H2, IP66; EEx d IIB + H2, IP66; T2 (consult factory for T3 or T4).

MP Series Remote Enclosure — For use in Ordinary (Non-Hazardous) area locations: Type 4X, IP66

Certified to US requirements; Certified to Canadian requirements

Certified to European ATEX requirements

^{*} 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.

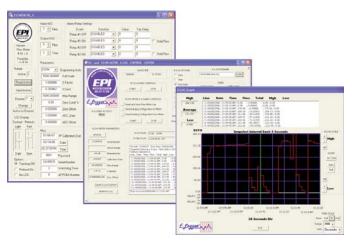
^{**} Consult factory for options required for 66°-200°C (150°-392°F)





The LightWIRE™ Communicator I modules transmit and receive signals from LightWIREIR-Enabled flowmeters. When connected to a RS232 or USB port on a PC or laptop running EPI Communicator software, the LightWIRE Communicator I mod-

ule replaces the three-wire cable for communications with an IR-Enabled Master-TouchTM flowmeter. The LightWIRE Communicator II hand-held module is a substitute for the keypad/display assembly of IR-Enabled Master-TouchTM flowmeters. Access all of the flowmeters functions without removing the flowmeter's enclosure cover with the Communicator II module.





The E-Logger™ module of the free EPICommunicator™ software is a fully functional, PC-based data logger that works in conjunction with

Master-Touch™ flowmeters which have v4.1A or higher software. The user can select from a set of categories for the data collection, the time interval for each data "snapshot" and, if necessary, programmed start and stop times. The data is stored on either the flowmeter or a PC. E-Logger will also graph the data, and it provides tools for analysis of the data. Data files stored on a PC can be accessed by most common spreadsheet applications.

LIMITED WARRANTY

Eldridge Products, Inc. (EPI) warrants its products to be free from defects in materials and workmanship for one year from the date of factory shipment. If there is a defect, the purchaser must notify EPI of the defect within the warranty period. Upon receipt of the defective product, EPI will either repair or replace the defective product at its sole option and at no cost to the purchaser. EPI MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AS TO THE PRODUCTS. EPI MAKES NO WARRANTY THAT THE GOODS SOLD TO ANY PURCHASER ARE FIT FOR ANY PARTICULAR PURPOSE. FURTHERMORE, EPI MAKES NO WARRANTY OF MERCHANTABILITY WITH RESPECT TO ANY PRODUCTS SOLD TO ANY PURCHASERS. There are no other warranties that extend beyond the description on any brochure or price quote.

LIMITED ACCEPTANCE

Acceptance of any offer is limited to its terms. Acceptances or confirmations that state additional or differing terms from this price quote shall be operative as acceptances, but all additional or differing terms shall be deemed material alterations within the meaning of Commercial Code Section 2207(2)(b), and notice of objection to them pursuant to Commercial Code Section 2207(2)(c) is hereby given. The laws of the State of California govern this contract and venue is Monterey County. Risk of loss passes F.O.B. EPI factory. Payment due in full in US Dollars within credit terms granted from factory shipment. Additional fees shall include interest on unpaid balances that are outstanding for more than granted credit terms, plus all collection costs and attorneys' fees incurred in collecting any outstanding balance. Any and all additional or differing terms do not become part of the contract between EPI and any purchaser. The terms of any offer are expressly limited to the terms detailed in any product brochure or price quote. Any modification to any of the terms of this offer must be in writing and must be signed by an officer of EPI.



Eldridge Products, Inc.