



Master-TouchTM



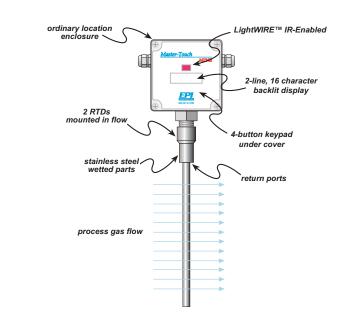
Series 9800MPNH Flow Averaging Tubes



CE

The Master-Touch FAT™ probes utilize a flow averaging tube to give a stable flow signal in applications where the flow profile is less than ideal, such as downstream of a bend, valve, tee or obstruction. In most installations, the up-stream straight run can be as short as three diameters. The FAT[™] probe has a number of large diameter (0.125") inlet ports along the length of the upstream impact surface. The impact pressure at each inlet port is averaged inside the tube to create the axial flow through the tube and across our flow sensor. The gas returns to the main flow stream through the ports located near the sensing elements.

Anomalies in the actual flow profile or installations in non-circular ducts may require minor adjustments for the best accuracy. The velocity impact pressure follows a square root function. Therefore, the average velocity pressure in the FAT[™] probe may vary slightly from the average of the velocities at each inlet port. The Master-Touch software supports three methods of flow signal adjustments for superior accuracy.



INSERTION style Flow Averaging Tubes include an inlet probe assembly which is inserted into the process gas flow conduit to allow the gas to flow into the tube and up across the flow sensing elements before returning to the process line. Our insertion style flowmeters are available with 1/2", 3/4" or 1" OD inlet tubes (the flow return port is 1/2" larger for each size). Installation requires a properly-sized bored through tube fitting. Tube fittings and ball valve retractor assemblies, with or without a mounting flange, are also available from the factory as options. The tube length is determined by the pipe or duct ID upon ordering.

INTEGRAL style thermal mass flow meters have all of the electrical components and connections located within one enclosure. The enclosure is NEMA 4X for non-hazardous environments. 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

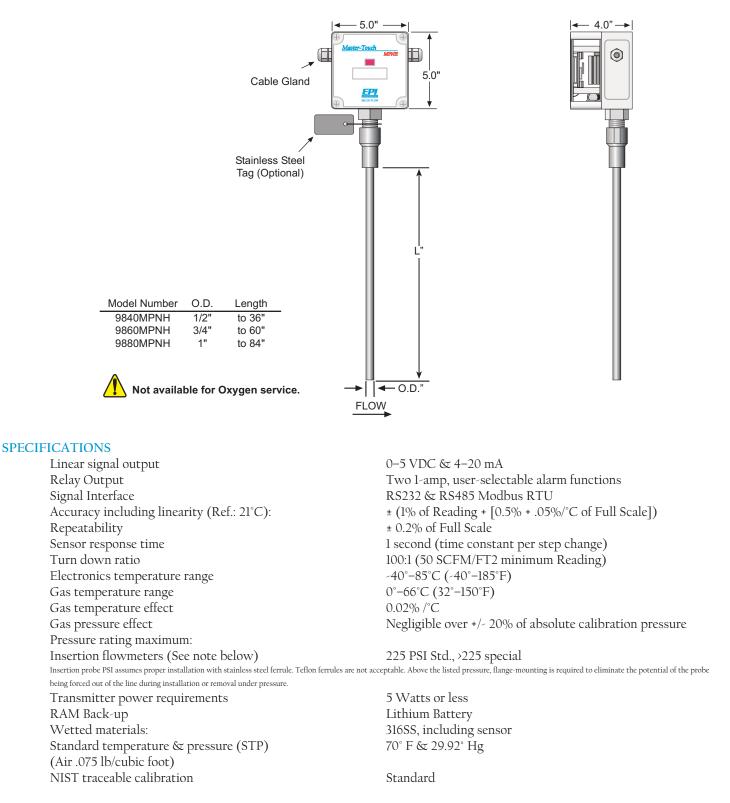
UTILITY SERVICES Stack or Flue Gas * Wastewater aeration * Ventilation systems * Digester Gas * Gas flows * Nitrogen purge * Combustion air * Boiler inlet air

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

RAW MATERIALS INDUSTRIES Pulp & Paper mills * Mining * Semiconductor manufacturing * Chemical processing * Primary metals * Plastics & synthetics



APPROVALS

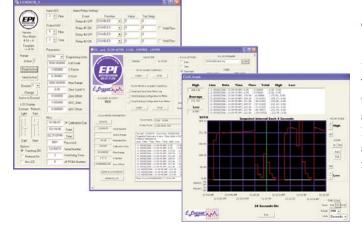
MPNH Series for use in Ordinary (Non-Hazardous) area locations: Type 4X, IP66 * The accuracy specification applies to the instrument only. EPI is not responsible for measurement errors due to flow profile irregularities caused by installation piping configurations, corrosion on inner pipe surfaces, valve placement, etc.





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-Touch[™] flowmeter. The LightWIRE Communicator II hand-held module is a substitute for the keypad/display assembly of IR-Enabled Master-Touch[™] 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

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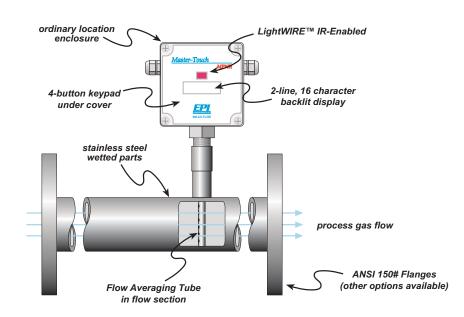
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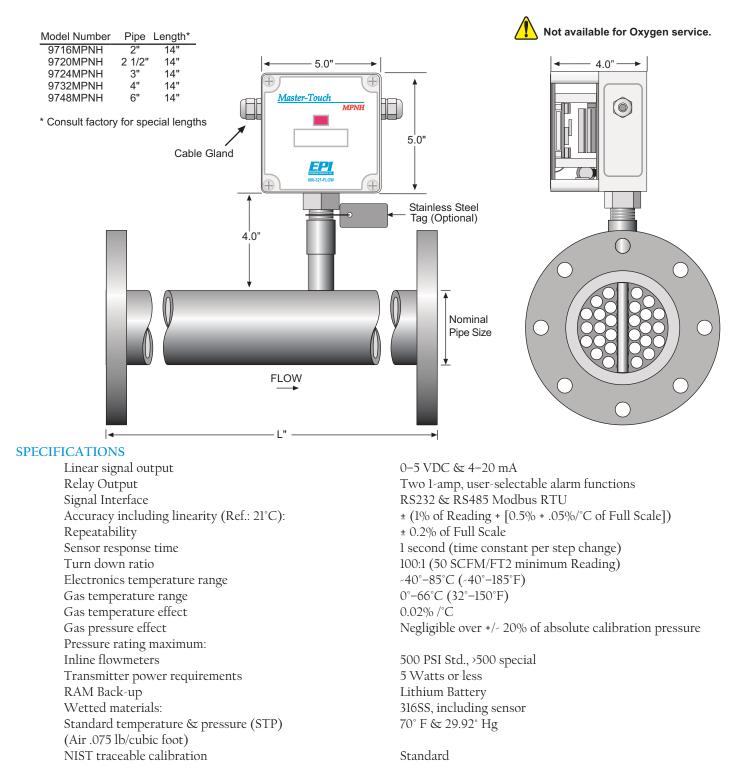
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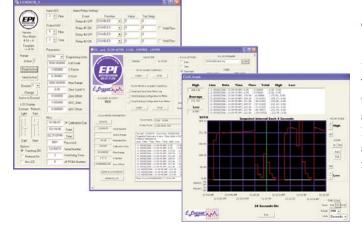
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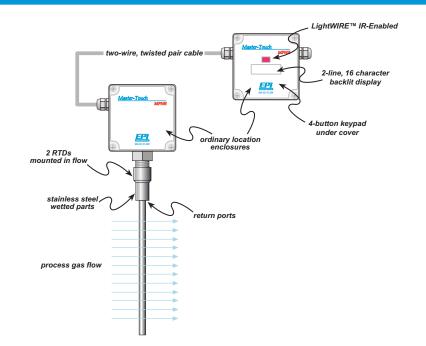
Series 9200MPNH Flow Averaging Tubes



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REMOTE style thermal mass flowmeters utilize two enclosures. One enclosure is mounted at the point of measurement on the flow section or on the probe assembly. This enclosure is rated for ordinary, non-hazardous environments. The second (remote) enclosure is usually placed in a readily accessible location rated for nonhazardous conditions. The remote enclosure includes the all of the electrical connections as well as the linearizing electronics and the display/keypad assembly. Only a two-wire, twisted-pair cable is required to carry the input power and flow signal between the two enclosures.

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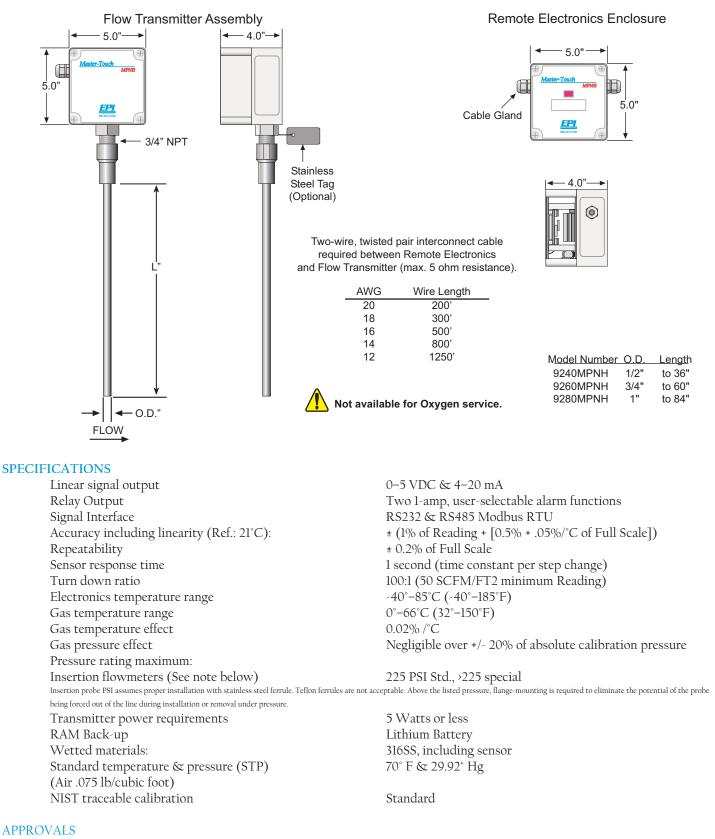
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MPNH Series for use in Ordinary (Non-Hazardous) area locations: Type 4X, IP66

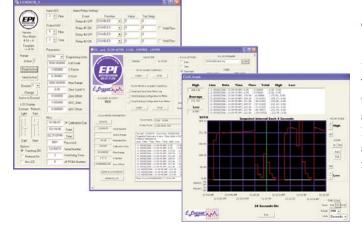
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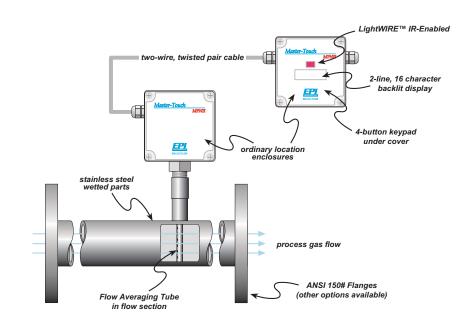


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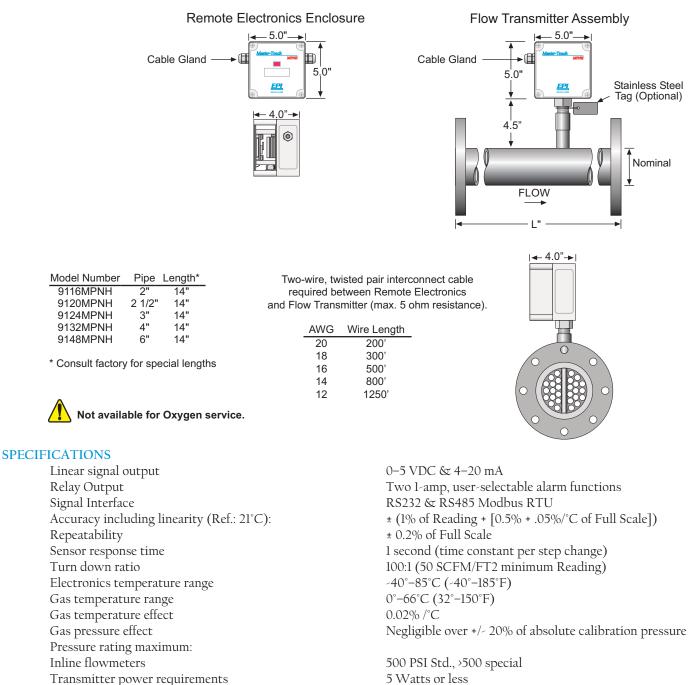
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Pressure rating maximum: Inline flowmeters Transmitter power requirements RAM Back-up Wetted materials: Standard temperature & pressure (STP) (Air .075 lb/cubic foot) NIST traceable calibration

Standard

Lithium Battery

70° F & 29.92" Hg

316SS, including sensor

APPROVALS

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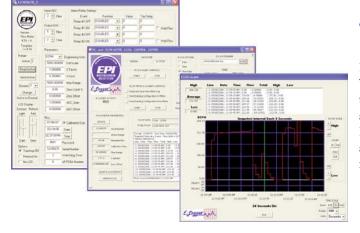
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