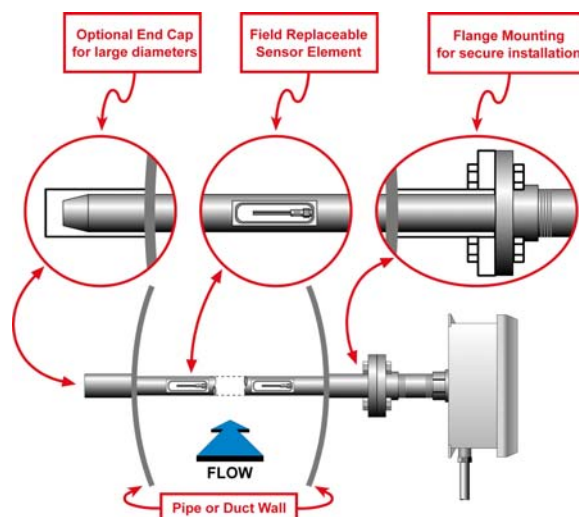


## Series 9000MP Multipoint Systems

Eldridge Products, Inc.'s Master-Touch™ Series 9000MP Multipoint Systems are designed to measure gas flows where two or more sensing points are required due to large cross-sectional areas, such as large air intake ducts or air exhaust and flue stacks. Our Series 9000MP Multipoint Systems are installed throughout the world, providing our customers with years of steady, reliable service. Coupled with our new Air Purge System, the Series 9000MP Multipoint Systems are now well-suited to an even greater variety of industrial applications.



### Applications

The Series 9000MP Multipoint design allows their use in applications as diverse as ambient air flows in HVAC ducts, exhaust gas in large diameter stacks, boiler NOx efficiency systems and municipal waste incinerators. Series 9000MP customers include environmental/HVAC system integrators, pulp & paper mills, power & energy companies, etc. They are successfully installed across the US, Europe and Asia. The configuration and installation options support facility retrofits as well as the most modern new construction requirements.

### Configuration

The Series 9000MP Multipoint System includes one or more Series 9000MP Probes and a Series 9601MP System Control Panel. The 9000MP flow transmitter probe assembly is the heart of the system. The probe assembly typically has two or more flow sensors mounted in a 1½" OD probe shaft. The 9000MP probe's sensors are removable for field replacement if one is damaged.

Each sensor is matched to its own bridge board and microprocessor to function, in effect, as a complete flowmeter. The linearized output signals from the multiple sensor assemblies in each probe are averaged to create one overall probe output signal. The probe's averaged output signal is transmitted to a Series 9601MP System Control Panel (SCP). If more than one probe is installed, the output signals from all of the probes are transmitted to the 9600MP System Control Panel for averaging to create one system output.

The Series 9601MP System Control Panel, or SCP, is housed in a 12" x 10" NEMA 4X fiberglass enclosure. The SCP provides the power for the probe assemblies and receives the averaged outputs over a four-wire cable to each probe. It also includes its own microprocessor assembly for system-level control and flow display. The SCP provides two analog output signals (0-5 VDC and 4-20 mA), as well as RS232 & RS485 Modbus RTU communications. The 4-20 mA grand average output can drive up to 1200 ohms.

# Eldridge Products, Inc.

## Optional Air Purge System

The optional Air Purge System (APS) provides a means of cleaning the sensors in applications where particulates cause problems. The frequency and duration of the purge cycle can be controlled externally or by using the Master-Touch™ software. The system can also be set to maintain the flow rate at its level when the purge was activated. This important option preserves the integrity of the flow rate and elapsed total data which might otherwise be compromised by the flow of the purge gas.



## Specifications

Linear signal output	0-5 VDC & 4-20 mA
Signal Interface	RS232 & RS485 Modbus RTU
Sensor Accuracy, including linearity (Ref.: 21°C)	±[1% of Reading + (.5% + .02%/°C of Full Scale)]
Sensor Repeatability	±0.2% of Full Scale
Sensor response time	1 second
Turn down ratio	100:1 @ 1500 SFPM minimum
Electronics temperature range	0°-50°C (32°-122°F)
Gas temperature range	-40°-200°C (-40°-392°F), consult factory for extended ranges
Gas pressure effect	Negligible over ± 20% of absolute calibration pressure
Pressure rating maximum	500 PSI Std., > 500 PSI special
9600MP input power requirement	24VDC @ 250mA 115 VAC 50/60 Hz optional 230 VAC 50/60 Hz optional
9600MP Control Panel power requirements	5 watts maximum
9600MP Control Panel enclosure	NEMA 4X fiberglass, 10" x 12" x 6"
9000MP Probe Assembly enclosure	NEMA 4X fiberglass, 8" x 10" x 4" flanged
Wetted materials	316 Stainless Steel
Standard temperature & pressure (STP)	70°F & 29.92" Hg (Air .075 lb./cubic foot)
NIST traceable calibration	Standard

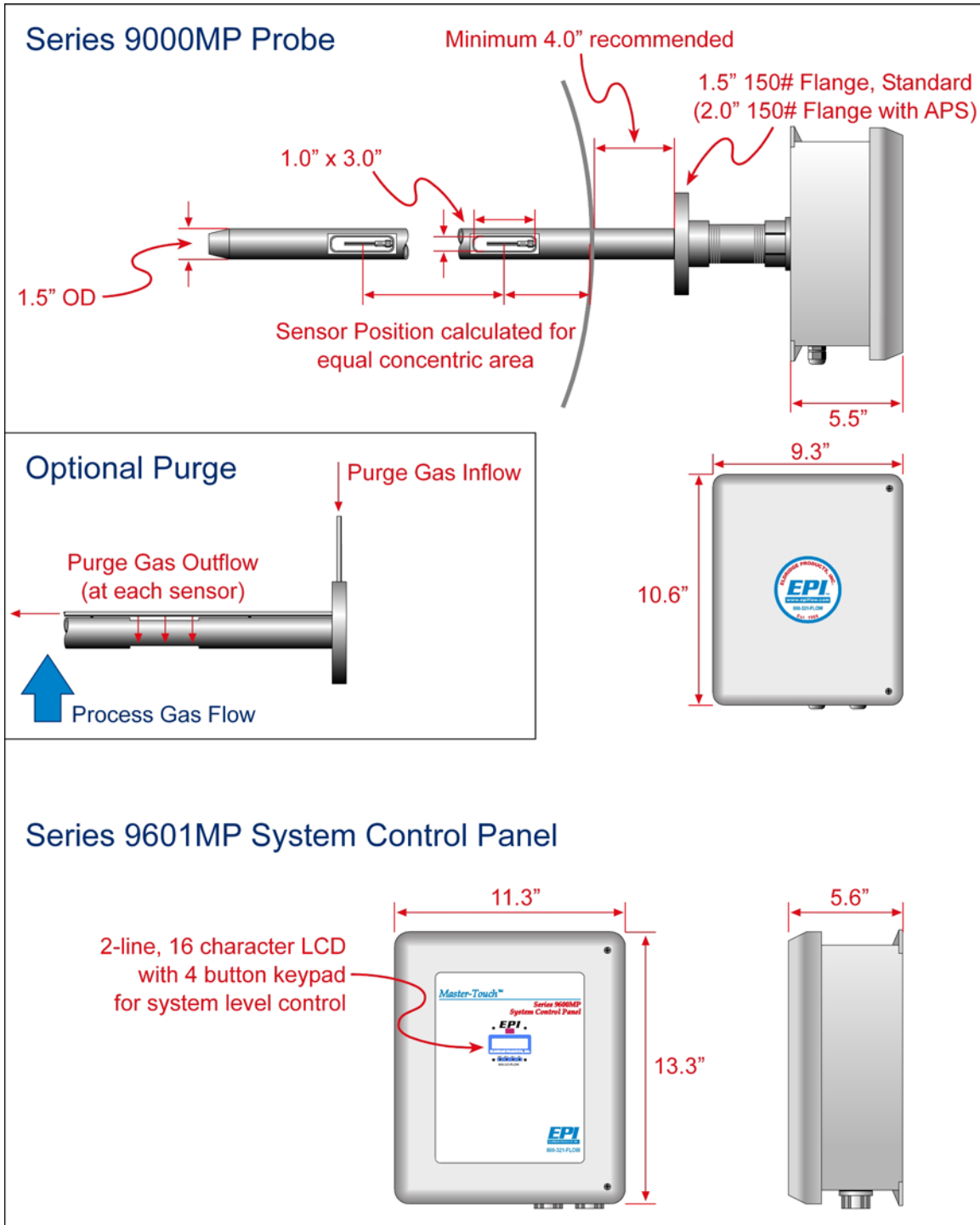


Eldridge Products, Inc.  
2700 Garden Road  
Building A  
Monterey, CA 93940



Tel: 800/321-FLOW (3569)  
Fax: 831/648-7780  
Email: sales@epiflow.com  
Internet: www.epiflow.com

# Eldridge Products, Inc.



Eldridge Products, Inc.  
2700 Garden Road  
Building A  
Monterey, CA 93940



Tel: 800/321-FLOW (3569)  
Fax: 831/648-7780  
Email: sales@epiflow.com  
Internet: www.epiflow.com

# Eldridge Products, Inc.

## Model Numbering

### Probe Assembly

Part	Description
9001MP-XX-XX-XX"-XXX	Probe assembly with 1 sensor
9002MP-XX-XX-XX"-XXX	Probe assembly with 2 sensors
9003MP-XX-XX-XX"-XXX	Probe assembly with 3 sensors
9004MP-XX-XX-XX"-XXX	Probe assembly with 4 sensors
	(Each sensor requires gas calibration)
XXXXXX-06-XX-XX"-XXX	ANSI 1½" 150# Class flange assembly mounted on probe
XXXXXX-08-XX-XX"-XXX	ANSI 2" 150# Class flange assembly mounted on probe (required for APS*)
XXXXXX-XX-01-XX"-XXX	10" x 8" enclosure on
XXXXXX-XX-XX-XX"-XXX	Probe assembly length from flange face to end
XXXXXX-XX-XX-XX"-DESFC	Double-ended support system Probe mating flange assembly and probe end support cup
XXXXXX-XX-XX-XX"-DESF	Double-ended support system Probe mating flange assembly only
XXXXXX-XX-XX-XX"-DESC	Double-ended support system Probe end support cup only
XXXXXX-XX-XX-XX"-XXX-APS	*Air Purge System mounted on 900XMP probe(s) Includes tube stub for purge gas connection by user

### System Control Panel\*

9601MP-133-1210-DC24	System Control Panel with 24VDC input power
9601MP-133-1210-AC115	System Control Panel with 115VAC input power
9601MP-133-1210-AC230	System Control Panel with 230VAC input power

\* 0-5VDC, 4-20mA outputs; RS485 Modbus RTU included

### SPECIFICATION NOTICE

The specifications contained herein are subject to change without notice. EPI cannot guarantee the applicability or suitability of our products in all situations since it is impossible to anticipate or control every condition under which our products and specifications may be used.

### LIMITED WARRANTY

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. 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.

Eldridge Products, Inc.  
2700 Garden Road  
Building A  
Monterey, CA 93940



Tel: 800/321-FLOW (3569)  
Fax: 831/648-7780  
Email: sales@epiflow.com  
Internet: www.epiflow.com