



# Filtration Air Restriction Sensor

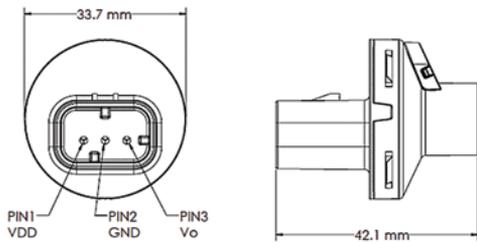


For improved air filtration system performance, Amphenol's new FMA series of Filtration Air Restriction (FAR) Sensors accurately measure the pressure loss across a variety of air filtration devices utilizing Amphenol's high accuracy NPA piezoresistive technology in a low-profile form factor that is easy to install and maintenance-free. With configurable thresholds, FMA can be easily installed for use in a variety of applications, including commercial and automotive HVAC and industrial air filters, engine air filtration systems and rooftop units exposed to pressure or vacuum environments. With hydrophobic reference port and sealed connection system, FMA monitor can be used in a variety of harsh environmental conditions.

The FMA Series of Air Filter Restriction Sensors are available in multiple positive or vacuum pressure ranges, mating with an integrated AMPSEAL 16 (3-way) electrical connector (Drawing No.: C-776402-1-GEN) and a 1/8-27 NPT female pressure connection port.

## Features

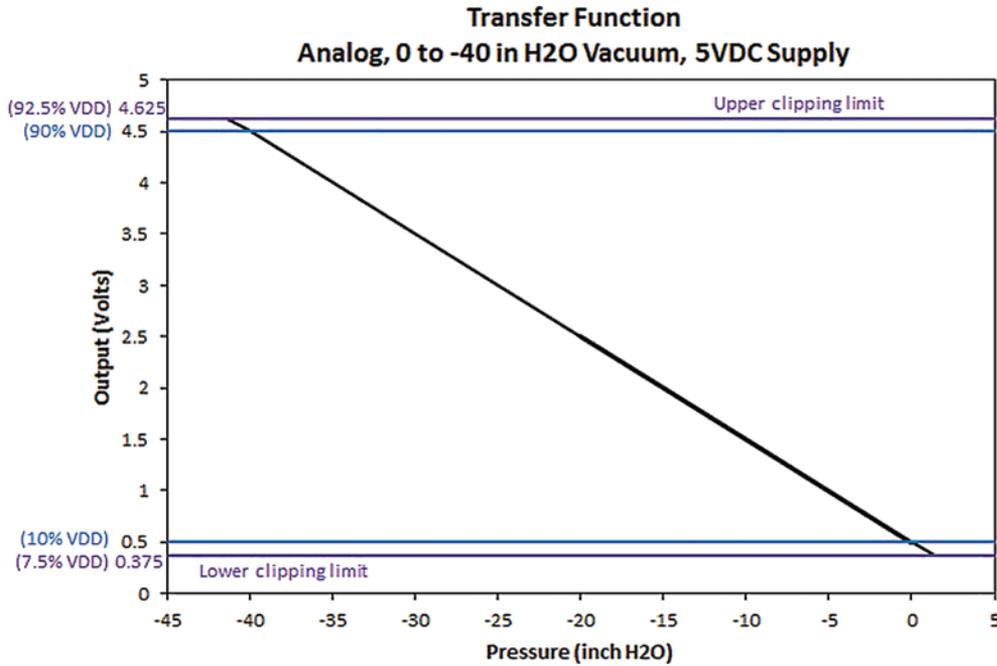
- Supply Voltage: 5VDC or 3.3VDC
- Diagnostic Features
- Temperature-compensated
- Sealed AMP Electrical Connector
- Multiple Pressure Ranges Available
- Fast Response Time
- REACH & RoHS Compliant



Performance	
Accuracy	2.5% FSO
Resolution	0.12% FSO
Compensated Temp Range	0°C to 80°C
Proof Pressure	2X FSP
Burst Pressure	3X FSP
Ingress Protection	IP66
Operating Temp Range	-40°C to 125°C
Storage Temp Range	-55°C to 150°C
Start-Up Time	10 ms
Response Time	< 2 ms
Repeatability	1.5% FSO
Intended Media	Clean Dry Air
Clamp Limits Upper/Lower	92.5% to 7.5%
Diagnostic Limits Upper/Lower	97.5% to 2.5%
Pressure Ranges Available*	0-5"
	0-10"
	0-40"
	1 PSI
	5 PSI

\* Contact factory for additional custom pressure ranges.

# Filtration Air Restriction (FAR) Specifications



Electrical	
Supply Voltage (VDD)	5 VDC +/-5%
Supply Current	5 mA Max
Output Voltage (OV) (Ratiometric)	0.5 to 4.5 V (10% to 90% VDD)
Output Current	0.040 mA Max
Output Impedance	250 ohm Max
Over Voltage	28 V Momentary Contact
Reverse Voltage	28 V Momentary Contact
ESD Rating	Contact: 8 kV; Air: 15 kV
EMC Compliance	RE (150 kHz - 3.2 GHz) CI BCI (10 kHz - 400 MHz) RI (100 kHz - 3.2 GHz)

## Ordering Information

FMA	Code	Description
↓	300	Analog Amplified Output, 3.3 VDC Excitation, Calibrated
	500	Analog Amplified Output, 5.0 VDC Excitation, Calibrated
	<b>Code</b>	<b>Description</b>
	05W	5 in H2O (1.25 kPa)
	10W	10 in H2O (2.5 kPa)
↓	40W	40 in H2O (10 kPa)
	001	1 Psi (7 Kpa)
	005	5 Psi (35 kPa)
↓	<b>Code</b>	<b>Description</b>
	GV	Vacuum Gage
	GP	Positive Gage
↓		

- Typical Order Number

**Amphenol**  
Advanced Sensors

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