

Miniature I/P, E/P Transducer Specifications

Functional Specifications	Standard Range		High Output Range		
	AFPT 1	AFPT 2	AFPT 3	AFPT 4	AFPT 5
Inputs (when ordering, choose one by letter designation)	(A) 4–20 mA ■ (C) 0–5 VDC ■ (E) 0–10 VDC ■ (F) 1–5 VDC ■ (D) 1–9 VDC				
Outputs (psig)	0–15*	0–30*	0–60*	2–60	2–100
Outputs (bar)	(0.00–1.00)	(0.00–2.00)	(0.00–4.00)	(0.14–4.00)	(0.14–6.90)
Supply pressure (psig)	25–65	40–70	70–80	65–130	105–130
Supply pressure (bar)	1.72–4.50	2.75–4.82	4.82–5.50	4.50–9.00	7.20–9.00
Air consumption at mid-range typical*	1.5 scfh (0.04 m ³ /hr)		4.5 scfh (0.13 m ³ /hr)		
Operating temperature limits	–40°F to +158°F (–40°C to +70°C)				
Storage temperature range	–40°F to +200°F (–40°C to +93°C)				
Loop load, I/P transducer	9.5 VDC @ 20 mA				
Supply voltage, E/P transducer	7–30 VDC, less than 3 mA				
Signal impedance E/P transducer	10 kilohms				

■ * Zero-based units have slightly higher air consumption.

Performance Specifications	
Accuracy, Hysteresis, and Repeatability	±0.10% of span guaranteed
Deadband	.02% of span
Position effect	No measurable effect
Vibration effect	Less than ±1.0% of span under the following conditions: 5–15 Hz @ 0.8 inches constant displacement; 1–500 Hz @ 10 g's
Supply pressure effect	No measurable effect
Temperature effect	±0.045%/°F (0.07%/°C) of span
Reverse polarity effect	No damage from reversal of normal supply current (4–20 mA) or from misapplication of up to 60 mA
RFI/EMI effect	< 0.5% of span change in output pressure per En 61000–4–3:1998, Amendment 1, Performance Criterion A

Physical Specifications	
Port size, pneumatic	1/4" NPT
Port size, electric	1/2" NPT
Media	Clean, dry, oil-free, air filtered to 40 microns
Mounting	Wall, panel, 1.5" or 2" pipe (optional) or DIN rail (optional)
Housing material	Chromate-treated aluminum with epoxy paint, NEMA 4X (IP65)
Elastomers	Buna-N
Trim material	Stainless steel; brass; zinc-plated steel
Weight	13 oz (0.4 kg)

Other Important Information

- A bimorph piezo actuator encapsulated in a protective skin provides constant defense against humidity and contaminants.
- Unique control and feedback circuitry provide precise, stable output with Airtop's AFP optimized systems.



ControlAir 900 X
miniature transducer