

UFM-P300 Pressure Transmitter | Data Sheet

The **UFM-P300** is a piezoresistive pressure sensor featuring a compact design and a stainless steel body with SS304 and SS316L diaphragms. It is designed for use in non-corrosive environments, providing a 4-20mA signal output. The P300 series is commonly used for pressure measurement in various industries such as aviation, aerospace, automotive, pharmaceuticals, hydrants, and HVAC.

Features

- **Accuracy** : 0.5% (terminal based)
- **Range** : -0.1MPa ~ 0 ~ 10kPa ~ 60Mpa
- **Resolution** : 0.5% FS | 0.3% FS - *optional*
- **Output signal** : 4 ~ 20mA | 1 ~ 5V | 0 ~ 10V | 0 ~ 5V | RS485
- **Installation** : Thread
- **Power supply** : 24VDC (9 ~ 36V)
- **Three connector types** : DIN, Cable and M12
- **Gel packaging** : Dust-proof, anti-aerosol, anti-vibration



Applications

- **Range -0.1 ~ 0.1MPa** : Vacuum and Pharmaceutical industry
- **Range 0 ~ 0.6MPa** : Paint production, Airtightness tests, HVAC
- **Range 0 ~ 2.5MPa** : Water supply, Hydrants, Agricultural Irrigation
- **Range 10 ~ 60MPa** : Hydraulic systems, Excavators, Injection Molding machines



PERFORMANCE	
Pressure Type	Gauge pressure absolute pressure sealing pressure
Power Supply	12VDC 24VDC 12-36VDC
Signal Output	4-20mA 0-20mA 0-5V 1-5V 0-10V RS485
Zero Drift	±0.03%FS°C
Accuracy	±0.5%FS°C , 0.3%FS - <i>optional</i>
Thermal Sensitivity Drift	±0.03%FS°C
Long Term Stability	≤0.2%FS°C one year
Frequency Response(-3dB)	5kHz~650kHz
Ingress Protection	IP65
Pressure Connection	G1/4, G1/2, 1/2NPT, 1/4NPT, M20*1.5etc. - <i>optional</i>
Measure Medium	Gas, water, oil etc. (non-explosion-proof area)
Electrical Connections	DIN connector type, M12 connector, cable connector type
Time Response	< 10ms
Weight	Min. 400g (depending on model)

OPERATING CONDITIONS	
Temperature	-20 ~ +80°C -4 ~ +176°F
Nominal Temperature	-40 ~ +85°C -40 ~ +185°F
Ambient Temperature	-40 ~ +100°C -40 ~ +212°F
Storage Temperature	PN≤40 bar 580 psi : -40 ~ +125°C -40 ~ +257°F
Medium Temperature	PN≥60 bar 870 psi : -25 ~ +125°C -13 ~ +257°F
	With cooling fins (optional)
	PN≤40 bar 580 psi : -40 ~ +125°C -40 ~ +257°F
	PN≤40 bar 580 psi : -40 ~ +125°C -40 ~ +257°F