



PGA220 (former P650)

GENERAL PURPOSE FOR AEROSPACE

AEROSPACE



- ▶ Robust & Reliable Pressure Sensor
- ▶ Built in Electronic
- ▶ High Bandwidth Capability
- ▶ High Temperature Capability and Very Low Shifts
- ▶ All Stainless Steel Construction

Technical Specifications	PGA221	PGA224	PGA227
Pressure Ranges (FS)	3 / 5 / 10 / 20 / 40 / 100 / 250 / 400 / 600bar -1/+2bar; -1/+5bar		
	40 / 70 / 150 / 300 / 500 / 1500 / 3000 / 5000 / 8000PSI -14,5/+30PSI; -14,5/+70PSI		
Type	Absolute, Gage, Sealed Gage (for ranges > 40bar)		
Safe Overload / Burst Pressure	150%FS / 300%FS		
Input Impedance for PHE221	> 3000Ω	-	-
Output Impedance for PHE221	> 3000Ω	-	-
Power Supply	5 to 15Vdc	8 to 30Vdc	8 to 30Vdc
Consumption	< 10mA		
Output at -100%FS (only for ± range)	Proportional to +100%FS	0Vdc	0,5Vdc
Output at 0%FS	0mV	0Vdc	0,5Vdc
Output at 100%FS	1,5mV/V nom.	5Vdc	4,5Vdc
Zero and Sensitivity settings tolerances	± 3%FS	± 50mV	± 50mV
Combined Non Linearity & Hysteresis		± 0,25%FS max.	
<i>Option</i>	-	± 0,1%FS max.	± 0,1%FS max.
Non Repeatability		± 0,02%FS typ.	
Signal Bandwidth (electronic)		1000Hz @ -3dB	
<i>Option</i>		-	
Insulation		> 1000MΩ @ 50Vdc	
Compensated Temperature		-55 to +125°C / -67 to +257°F	
<i>Option</i>		-	
Operating Temperature		-55 to +125°C / -67 to +257°F	
Combined thermal zero & sensitivity shifts		± 3.10 <sup>-4</sup> FS/°C	
		-	
Long Term Stability		± 0,1%FS/year typ.	
Constant acceleration in linear vibrations		± 0,02%FS/g (frequency 20-2000Hz, 50g max.)	
Mechanical Shock		100g ½ sinus 1ms	
Electrical Protection		Protected against polarity inversion	
EMC Protection		Compliant to EN61000	
Standard Electrical Connection		MIL-C26482 hermetic receptacle (6 pins)	
<i>Option</i>		M12 hermetic receptacle (4 pins)	
Standard Mechanical Connection		7/16-20 UNJF, M14x1,5 male with inner cone	
<i>Option</i>		-	
Material(s) of Wetted Parts		Stainless Steels 316L (1.4404), 15-5PH (1.4545) and 17-4PH (1.4542)	
Weight		< 120g without cable	
Enclosure Protection		IP67 for Sealed Gage & Absolute	
Accessories delivered with the sensor		Calibration certificate or Datas in pressure and temperature (option)	



E.F.E.

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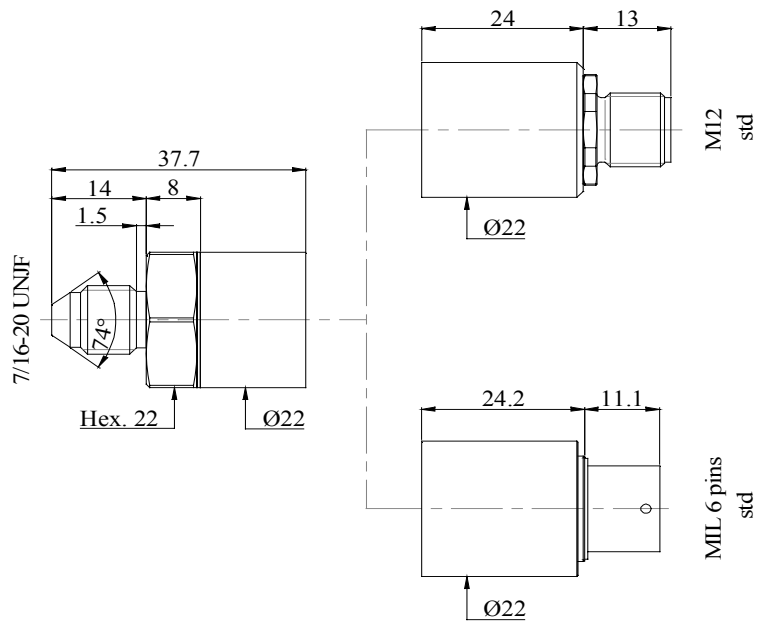
Head Office: 16 rue Porte à Bateaux – 27540 Ivry la Bataille – France

Tel: 33 (0)2.32.22.35.05 – Fax: 33 (0)2.32.36.93.08 – www.efe-sensor.com

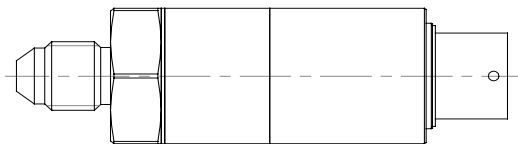
PGA220

CAPTEUR DEDIE AERONAUTIQUE  
GENERAL PURPOSE FOR AEROSPACE

PLAN / DRAWING



SCALE 1:1



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# PGA220

# ORDER CODE

Complete Reference		PGA22 X - X - XXX - XXX - XX - XX - XX - X XX - XX													
<b>Model</b>	General Purpose for Aerospace Ø 22mm	PGA													
		22													
<b>Output Signal</b>															
	1,5mV/V														
	0-5Vdc														
	0,5-4,5Vdc														
<b>Material of wetted parts</b>	Stainless Steel														
<b>Pressure Ranges</b>	Example unidirectional : 20bar														
	Example bidirectional : -1/+2bar														
<b>Pressure Unit</b>	bar														
	PSI														
<b>Operational Mode</b>	Gage														
	Sealed Gage														
	Absolute														
<b>Mechanical Thread</b>	7/16-20 UNJF male														
	M14x1,5 male with inner cone														
<b>Electrical Connection</b>	MIL-C26482 hermetic receptacle (6 pins)														
	M12 hermetic receptacle (4 pins)														
<b>Compensated Temperature</b>	-55 to +125°C / -67 to +257°F														
<b>Accuracy</b>	± 0,25%FS (Standard)														
	± 0,1%FS (Option)														
<b>Thermal Shifts</b>	± 3.10 <sup>-4</sup> FS/°C (Standard)														
<b>Options</b>	N/A														
	Specific marking														
	Specific settings														



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IND01



[www.instrumentation.it](http://www.instrumentation.it)

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