

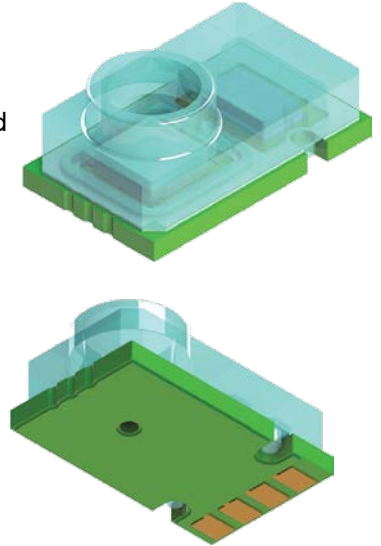


NPC-300 | Disposable Medical Pressure Sensor

The NovaSensor NPC-300 is a Disposable Medical Pressure Sensor specifically designed for use in disposable medical applications. The device is calibrated and thermally compensated with a digital I²C output incorporating a signal conditioning integrated circuit. Wetted materials have been tested in accordance to ISO 10993 and USP Class VI Specifications for protracted duration of contact up to 30 days.

NPC-300 is fabricated in a Class 1000 Clean Room to minimize possible sources of contamination. Programmable signal conditioning is utilized for final compensation and calibration. Total Error Band (TEB) is maintained at ±5.5% within the defined compensation range.

The method of assembly draws from well-established manufacturing techniques used in the electronics industry to produce a quality product in a miniature package (5.6mm x 3.4mm x 2.3mm) and is available in tape and reel packaging for automated assembly.



Features

- Solid state, high reliability
- Media compatibility
- High performance
- Biocompatible gel
- Miniature package (5.6mm x 3.4mm x 2.3mm)
- Temperature compensated
- Low cost, disposable design
- I²C digital output

Applications

- Medical instrumentation
- Blood pressure measurement
- Infusion pumps
- Kidney dialysis machines

Preliminary NPC-300 Specifications

General Parameters	Min	Typ	Max	Unit	Notes
Operating Pressure	-30		300	mmHg	-0.58 psiG to 5.8 psiG
Over Pressure			70	psiG	
Operating Temperature	15		40	°C	Compensation temperature
Electrical					
Supply Voltage	1.8		3.6	VDC	
Current Consumption		0.9	1.5	mA	
Pressure Output Resolution			16	bit	
Pressure Accuracy	-5.5		5.5	%FSO	15°C to 40°C
Mechanical					
Dimensions (L x W x H)	5.6mm x 3.4mm x 2.3mm				
Weight	~0.2 gram				
Media Interface	Medical grade, dielectric gel				
Gel Tube Interface	Polycarbonate				

Amphenol NovaSensor is a leading innovator in advanced sensing technologies and embedded measurement solutions customized for a wide range of applications to provide critical information for real time decisions. We offer industry-leading application expertise, rapid customization and world-class manufacturing capability to deliver the greatest value to our customers.