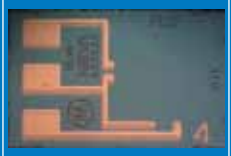
NOVA® SENSOR

# Product Spotlight

## P162, P330 and P24120 Pressure Sensors for Catheters

For more than 25 years NovaSensor has proudly supplied micro pressure MEMS die for the catheter and medical market. Our micro die family comprises the P162, P330 and P24120 die. All die are designed with our SenStable® technology, which features high Sensitivity while still affording “Best-in-Class” Stability and Reliability. The larger P162 can be used in most micro die catheter systems. Additionally the much smaller P330 and P24120 die affords an even smaller profile and lower power requirements and is intended for all catheter and FFR based solutions.

| Parameter | Units | P162  | P330  | P24120  | Comments |
|---|---|---|---|---|---|
| Size | µm | 1150 x 725 x 180 | 900 x 330 x 180 | 1015 x 240 x 120 | |
| Circuit | | Two piezoresistors (half bridge) | | | Wheatstone bridge with two stable resistors having the same resistance as piezoresistors |
| Resistance | Ohm | 800 | 3200 | 2500 | |
| Excitation | | 1…6 V DC, 10 V DC maximum | | | |
| Pressure range | mmHg | 0-300 differential | 450-1050 absolute | | |
| Sensitivity | µV/V/mmHg | 18 | 10 | 8 | |
| **Non-linearity** | **mmHg** | **<1** | **<1** | **<1** | |
| Offset | mV/V | within ±1 | 9 | within ±2 | |
| TC Offset | µV/V/°C | ±40 | ±30 | ±20 | 15-45°C range |
| TC Sensitivity | %/°C | –0.12 | –-0.2 | –0.2 | |
| TC Resistance | %/°C | 0.12 | 0.10 | 0.13 | TCR of piezoresistors |
| Operating temp | °C | 15…45 | | | |
| Proof pressure | mmHg | 2700 | | 3000 | |
| **Drift** | **mmHg** | **< 1** | **< 1** | **< 1** | **Typ: 1 hour test at 37°C** |
| Connections | | Wire bonding (WB) | | WB or soldering | |

Amphenol Advanced Sensors is a leading innovator in advanced sensing technologies and embedded measurement solutions customized for a wide range of applications, including catheter-based measure-ments in medical field, creating value by providing critical information for real time data-driven decisions. We offer industry leading domain expertise, rapid customization, world-class manufacturing capability and lasting customer relationships to deliver the greatest value products to our customers.

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