

Stainless steel pressure sensors

- Wide pressure range
- Excellent accuracy
- High media compatibility

EPT3100 / EPTT5100

EPT2100

EPT1200 / EPT1500



Variohm Eurosensor's EPT-Series offers high-quality stainless steel pressure sensors for applications that require high performance and competitive price.

| Accuracy | Max. Operating temp. | Sealing | Stability | Over pressure | Burst pressure | Pressure cycle | Housing |
|--|----------------------|---------|-------------------------|-------------------|---|----------------|---------------------|
| $\leq \pm 0,8\%$ of pressure range at 25°C | -40 to +125°C | IP 66 | $\leq \pm 0,1\%$ / year | 2x rated pressure | 5x rated pressure except. EPT1200 & EPT1500: 3x | > 10 Mio | 304 stainless steel |

| Type | Measuring range | Pressure port | Output signal | Electr. Connection |
|--------------------------------------|--|---|---|---|
| EPT3100 | From 0-600 mbar to 0-4000 bar Standard: 0-10 bar, 0-100 bar, 0-160 bar, 0-250 bar | <ul style="list-style-type: none"> • G 1/4" Male • 1/4" NPT Male • 1/8" NPT Male • 7/16"-20 UNF Male • 9/16"-20 UNF Male • M14x1,5 Male • 1/4" SAE Female • 3/8x24 UNF Female | <ul style="list-style-type: none"> • 0-10V • 4-20 mA • 1-5 V • 0-5 V • 0,5-4,5V ratiometric | <ul style="list-style-type: none"> • 600 mm cable • Miniature DIN43650 Connector • Packard Metripac • Standard DIN43650 connector ratiom. |
| EPT2100 | From 0-600 mbar to 0-35 bar Standard: 0-10 bar | <ul style="list-style-type: none"> • 3/8x24 UNF Male • M10x1,25 Female | <ul style="list-style-type: none"> • 0,5-4,5V ratiometric | <ul style="list-style-type: none"> • 600mm cable • Packard Metripac |
| EPT1200 / EPT1500 | From 0-600 mbar to 0-400 bar | <ul style="list-style-type: none"> • M8 x1 • 3/8x24UNF Male • M8x1 • M10x1 | <ul style="list-style-type: none"> • 1-5V • 0-5V • 0,5-4,5V ratiometric | <ul style="list-style-type: none"> • 600mm cable |
| CIT-F | From 0.25 to 40 bar | <ul style="list-style-type: none"> • G1/2" B flush mount • G1" B flush mount | <ul style="list-style-type: none"> • 4...20 mA • 0...10 V • 0...5V • Digital | <ul style="list-style-type: none"> • 600mm cable • M12x1 |
| EPTT5100 Pressure/Temperature sensor | From 0-600 mbar to 0-1000 bar From -50°C to +150°C | <ul style="list-style-type: none"> • G1/4 • M10x1 | <ul style="list-style-type: none"> • 0.5 V (press.) • 0,5..4,5V (press.) • 0..10V (press.) • 0,5-4,5V (Temp.) | <ul style="list-style-type: none"> • 600mm cable • M12x1 |

OEM pressure sensor components

- Wide range of options and designs
- Low pressure versions available
- Proven reliability

Silicon Die

PCB pressure sensor

Media isolated



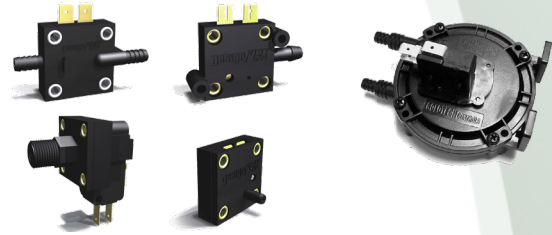
The OEM pressure sensor components provide the suitable design for your application starting from a Silicon Die up to a complete compensated, amplified, media isolated pressure sensor module.

| Type | Silicon Die | PCB pressure sensor digital | PCB pressure sensor analogue | Media isolated pressure sensor module |
|---------------------|--|--|--|--|
| Pressure type | <ul style="list-style-type: none"> • Absolute • Differential | <ul style="list-style-type: none"> • Absolute • Gage • Differential | <ul style="list-style-type: none"> • Absolute • Gage • Differential | <ul style="list-style-type: none"> • Absolute • Gage • Differential |
| Pressure range | • From 0-50 mbar to 0-70 bar | • From 0-2,5 mbar to 0-30 bar | • From 0-70 mbar to 0-35 bar | • From 0-70 mbar to 0-345 bar |
| Non-linearity | $\pm 0,05\%.. \pm 0,3\%$ FSO | $\pm 0,1\%.. \pm 0,3\%$ FSO | $\pm 0,05\%.. \pm 0,25\%$ FSO | $\pm 0,1\%.. \pm 0,3\%$ FSO |
| Working temperature | -40..125°C | -40..85°C | -40..125°C | -40..125°C |
| Output signal | mV/V | <ul style="list-style-type: none"> • I²C • SPI | <ul style="list-style-type: none"> • mV/V • ratiometric | <ul style="list-style-type: none"> • mV/V • ratiometric |

Designflex pressure switches

- Simple and safe switch control
- Flexible options
- Small size

World Magnetics pressure switches are small, lightweight and cost effective. wide range of options and shapes allow flexible design for each application. Special used materials can handle also aggressive medias.



| | PSF 100A | PSF 101 | PSF 102 | PSF 103 | PSF 109S | PS100 / PS160 |
|--------------------------|--|--|---|--|--|--|
| Type | | | | | | |
| Characteristics | <ul style="list-style-type: none"> • Vibration resistant • Military approved • Double diaphragm | <ul style="list-style-type: none"> • Multiple options | <ul style="list-style-type: none"> • Switch point adjustable • Multiple options | <ul style="list-style-type: none"> • Switch point adjustable • Pressure only • Multiple options | <ul style="list-style-type: none"> • Switch point adjustable • Vacuum only | <ul style="list-style-type: none"> • Switch point adjustable • For very low pressure |
| Measuring range | From 0 to 0,25mbar to 0 to 125 mbar" | From 0 to 0,25 mbar to 0 to 125 mbar" | From 0 to 0,07 mbar to 0 to 2068 mbar" | From 0 to 5 mbar to 0 to 4137 mbar" | From 0 to -8 mbar to 0 to -822 mbar" | From 0 to 0,125 mbar to 0 to 12,5 mbar |
| Pressure type | <ul style="list-style-type: none"> • Pressure • Vacuum • Differential | <ul style="list-style-type: none"> • Pressure • Vacuum • Differential | <ul style="list-style-type: none"> • Pressure • Vacuum • Differential | <ul style="list-style-type: none"> • Pressure | <ul style="list-style-type: none"> • Vacuum | <ul style="list-style-type: none"> • Pressure • Vacuum • Differential |
| Switch voltage (VDC/VAC) | 30V | 30V | 30V | 125/250V | 125/250V | 125/250V |
| Switch current (in mA) | 40mA | 40mA | 40mA | 25A | 25A | 25A |
| Hysteresis | no | no | no | yes | yes | yes |

Approved to international and military standards. UL-approved under E41523. FDA-approved materials available.

Industrial pressure switches

- Excellent repeatability
- Field-adjustable or factory-set
- Outstanding durability



These pressure switches provide outstanding reliability, stability and durability, even in the most demanding industrial applications.

| | P Pressure | HP High pressure | V Vacuum | SP/UHP Clean room pressure | SV/UHV Clean room vacuum | 200P Pressure | 210P High Pressure | 220V Vacuum |
|-----------------|---|---------------------|--|--|--|---|--|---|
| Type | | | | | | | | |
| Switch point | 35mbar to 34.5 bar | 6,9 bar to 415 bar | -35 mbar to 2 bar | 69 mbar to 34.5 bar | -110 mbar to 2 bar | 200mbar..10.3bar | 2bar...345bar | -170mbar..-1bar |
| Max. Pressure | 34.5 bar | 415 bar | (-) 2.1 bar | 34.5 bar | (-) 2.1 bar | 24,3bar | 620bar | 24,3bar positive |
| Characteristics | Over-pressure protection up to 275 bar | Vibration resistant | Over-pressure protection up to 205 bar | Tightness 1x10 ⁻⁹ cc/s Helium electropolished | Tightness 1x10 ⁻⁹ cc/s Helium electropolished | Rugged compact brass housing Maximum Overpressure 350 psi | Robust zinc plated housing sealed to IP 65 | Rugged brass construction Vacuum pressure range from 5-30" Hg |
| Switch current | 115/250 VAC / 28 VDC; gold-/silver cotacts | | | | | SPDT Switch (up to 5 Amp) | SPDT Switch (up to 5 Amp) | 5 Amp SPDT snap action microswitch |
| Termination | Terminals, solder pins, flying leads, instrumentation cable | | | | | DIN... connector | Din 43650A | Din 43650 A |

The following "Zero Leakage Definition" is applicable to all standard products:
 Pressure switch: Air is undetectable in a 5 second soap bubble test Vacuum switch: 1x10⁻⁹ cc/min air