

# Amplified and Temperature Compensated Semiconductor Pressure Sensors



## Features

Higher accuracy on request

- High accuracy  $\pm 1.5\%$  FS ( $\pm 1.0\%$  FS,  $\pm 0.5\%$  FS)
- Supply voltage 3.0, 3.3 & 5.0 Vdc
- Analog, non-digital analog & digital output
- Low power consumption 2 mA Max (AP2, 3.3Vdc)
- Custom modifications to pressure range and outputs available
- Good long-term stability and performance
- RoHS compliant

Very high accuracy over the entire compensated temperature range & no Best Fit Straight Line (BFSL) calculation!

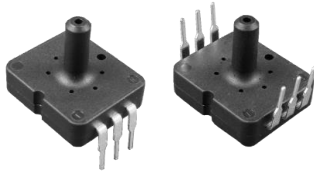
## Medical Applications

Very low offset drift over years

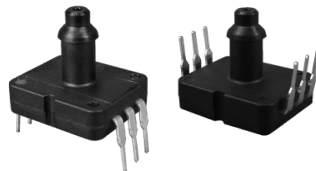
- Non-invasive blood pressure monitors (Special variants of AP3/AG3, please inquire)
- NPWT suction pumps
- DVT pneumatic pumps
- Oxygen concentrators
- Medical air beds
- Blood biochemical analysis machines
- Other pneumatic controls
- Other portable medical devices

Widely compensated temperature range of 85°C

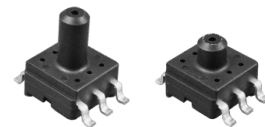
## Packages Lineup



**AP Series**  
DIP, Smooth port



**APB2 Series**  
DIP, Barbed port



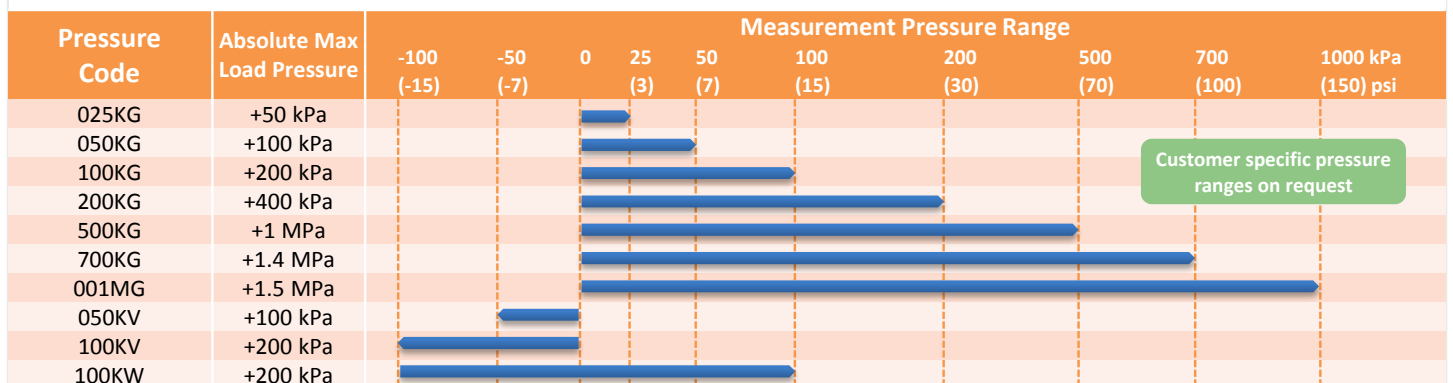
**AG Series**  
SMT, 3 & 6 mm port

## Specifications

Item	Unit	Model								
		AP2 / AG2 / APB2			AP3 / AG3			AP4 / AG4		
Type of Output		Analog Output			Analog Output (Non-digitally Corrected) Single Point Pressure Threshold Detection			Digital Output (I <sup>2</sup> C™)		
Supply Voltage	Vdc	3	3.3	5	3	3.3	5	3	3.3	5
Maximum Supply Current	mA	2	2	3	5	5	6	3.5	3.5	4.5
Accuracy	%FS	$\pm 2$	$\pm 1.5$	$\pm 1.5$	$\pm 2$	$\pm 1.5$	$\pm 1.5$	$\pm 1.5$	$\pm 1.5$	$\pm 1.5$
Operating Temperature	deg C	-40 ... +125			-40 ... +105			-40 ... +125		
Compensated Temperature	deg C	0 ... +85			0 ... +60			0 ... +85		
Pressure Media		Non-corrosive gases (Air and other dry gases)								

Other media possible ask Pewatron

## Pressure Range



Customer specific pressure ranges on request

# Low Pressure & Digital Output Semiconductor Pressure Sensors

New



## Package



**AL4**  
SOIC-14  
Dual barbed ports

## Features

- Digital output
- High accuracy  $\pm 1.5$  %FS
- Supply voltage 3.0, 3.3 & 5.0 Vdc
- High load pressure +100kPa
- Custom modifications to pressure range and outputs available
- RoHS compliant

## Medical Applications

- Sleep apnea prevention devices
- CPAP machines
- Oxygen concentrators and conserving devices
- Ventilators
- Respiratory devices
- Other portable medical devices

## Specifications

Item	Unit	Model AL4		
Type of Output		Digital Output (I <sup>2</sup> C™)		
Supply Voltage	Vdc	3	3.3	5
Maximum Supply Current	mA	3.5	3.5	4.5
Accuracy	%FS	$\pm 1.5$	$\pm 1.5$	$\pm 1.5$
Operating Temperature	deg C	-40 ... +85		
Compensated Temperature	deg C	0 ... +50		
Pressure Media		Non-corrosive gases (Air and other dry gases)		

Other media possible  
ask Pawatron

## Pressure Range

Pressure Code	Abs Max Load Pressure (kPa)	Measurement Pressure Range									
		-10	-7	-4	-2	-1	0	1	2	4	7
		(-100)	(-70)	(-40)	(-20)	(-10)	(10)	(20)	(40)	(70)	(100) cmH <sub>2</sub> O
002KG	+100										
004KG	+100										
007KG	+100										
010KG	+100										
002KV	+100										
004KV	+100										
007KV	+100										
010KV	+100										
001KW	+100										

Customer specific pressure  
ranges on request

## Who is Fujikura?



Head Office in Tokyo

The history of Fujikura began in 1885, when Zenpachi Fujikura, the founder of the Company, produced copper wires for electronic generators through much trial and error. At the time, copper wires represented a leading-edge technology. Since the early days, Fujikura

has been expanding its business in a wide spectrum of fields, including IT, electronics and electric components.

Pressure sensors are one of product lines in Fujikura's electronics business. We have supplied pressure sensors since 1982. Our products are used in various consumer, industrial and medical applications globally. To help you deliver a successful project, We are willing to:

- Listen and support the resolution of your technical challenges.
- Provide strong technical support, samples and testing.
- Supply modified & customized products to meet your most demanding needs.



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**PEWATRON**  
SENSORS · POWER SOLUTIONS

## We are here for you. Addresses and Contacts.

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