

## **GMP11-WB01 Silicon Pressure Sensor**

## **General Introduction**

GMP11-WB01 is a gauge type silicon pressure sensor especially designed for applications requiring pressure measurement from 0 to 200 kPa. The pressure sensor is based on the industry-recognized piezo-resistive technology featuring long-term stability and EMC robustness. Its small size,  $0.9 \times 0.9 \text{ mm}^2$ , benefits the miniature packages.

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	Feat	ures					
O	Operation range: 0~200 kPa	O	Small size: $0.9 \times 0.9 \text{ mm}^2$				
$\mathbf{C}$	Gauge type sensor	O	Low cost				
C	Constant current or constant voltage drive						
	Applications						
O	Industrial pressure sensor	$\mathbf{O}$	Pressure gauge				

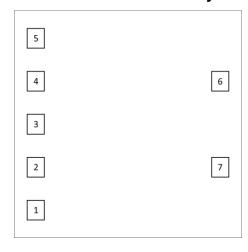


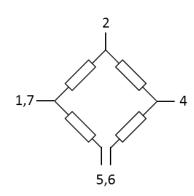
## **Specifications**

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Operation voltage	Vin			5	10	V
Operation current	Ю		_	1	2	mA
Bridge impedance			5	5.4	6	$\mathrm{k}\Omega$
Pressure range			0		200	kPa
Full scale span	FS	Vin=5V	100	115	130	mV
Offset			-10		10	mV
Linearity			-0.3	±0.2	+0.3	%FS
TTC		Constant voltage	-0.17	-0.22	-0.27	%FS/°C
TC span		Constant current	-0.08	±0.02	+0.08	%FS/°C
TC offset			-0.08	-0.05	+0.08	%FS/°C
Proof pressure					2X	Rated FS
Burst pressure					3X	Rated FS
Temperature range			-40	25	+85	°C
Storage temperature			-40		+125	°C



## Pads layout and definition





O Die size: 0.9mm×0.9mm (without scribe line)

O Pad size: 70μm×80μmO Scribe line: 80μm

Pin#	Name	Description
1	Vout-	Output voltage -
2	Vin	Power supply in
3	NC	No connection inside
4	Vout+	Output voltage +
5	GND1	Ground pad 1
6	GND2	Ground pad 2
7	Vout-	Output voltage -