

Rating

● Low pressure type

Item	Economy type (without glass base)
Type of pressure	Gauge pressure
Pressure medium	Air ^{*1}
Rated pressure (kPa)	6
Max. applied pressure	Twice of the rated pressure
Ambient temperature	0 °C to +70 °C 32 °F to +158 °F (no freezing or condensation)
Storage temperature	-30 °C to +100 °C -22 °F to +212 °F (no freezing or condensation)
Drive voltage	5±0.25 V
Temperature compensation range	0 °C to 70 °C 32 °F to 158 °F
Offset voltage	0.5 V (Typical) ^{*2}
Span voltage	4.0 V (Typical) ^{*2}
Overall accuracy	±2.5 %FS ^{*2,3,4}
Current consumption	Max. 10 mA
Output impedance	50 Ω (Typical)
Source current	Max. 0.2 mA
Sink current	Max. 2.0 mA

*1: Please consult us for pressure media other than air.

*2: Indicates output when drive voltage is 5 V. Although output fluctuates due to fluctuations in the drive voltage, this is not included.

*3: Overall accuracy indicates the accuracy of the offset voltage and span voltage at temperatures between 0 to 70 °C 32 to 158 °F (FS=4V)

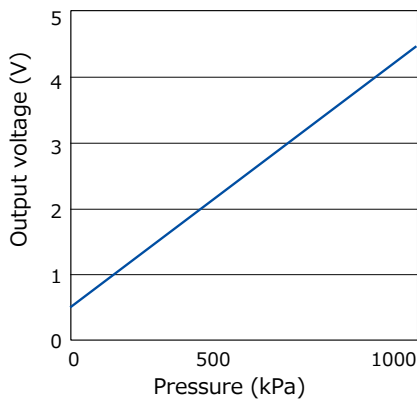
*4: The initial offset voltage error is not included in the overall accuracy.

Reference data

[Standard type]

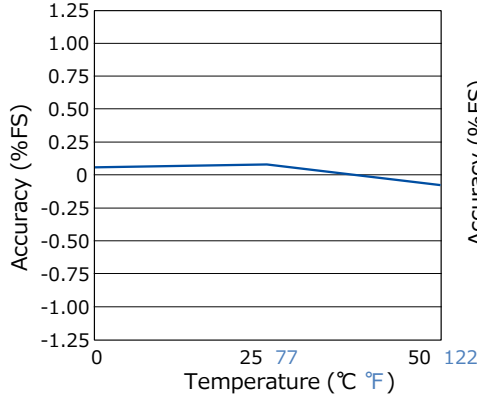
1. - ① Output voltage

ADP5170
 Drive voltage : 5 V
 Temperature : 25 °C 77 °F
 Applied pressure : 0 to +1,000 kPa



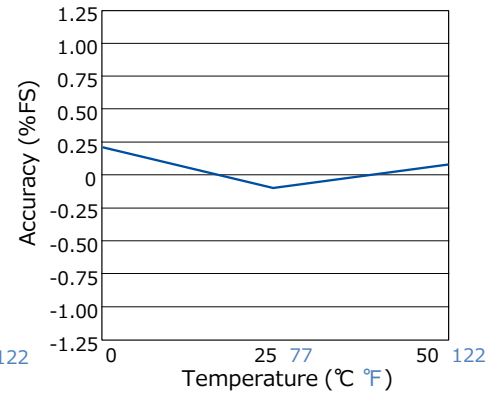
1. - ② Overall accuracy (Offset voltage)

ADP5170
 Drive voltage : 5 V
 Temperature : 0 to 50 °C 32 to 122 °F
 Applied pressure : 0 kPa



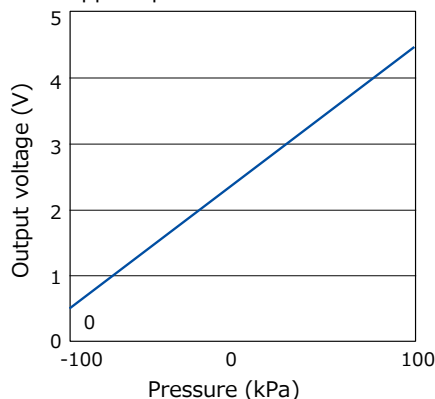
1. - ③ Overall accuracy (Rated output voltage)

ADP5170
 Drive voltage : 5 V
 Temperature : 0 to 50 °C 32 to 122 °F
 Applied pressure : +1,000 kPa



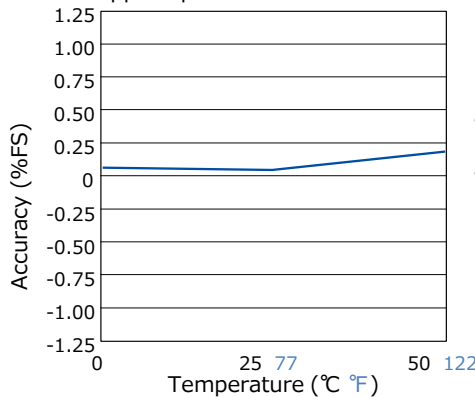
2. - ① Output voltage

ADP5100
 Drive voltage : 5 V
 Temperature : 25 °C 77 °F
 Applied pressure : -100 to +100 kPa



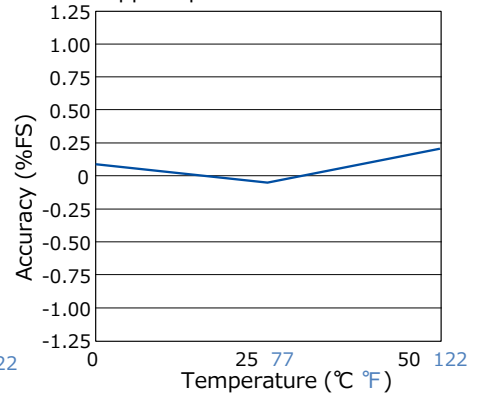
2. - ② Overall accuracy (Offset voltage)

ADP5100
 Drive voltage : 5 V
 Temperature : 0 to 50 °C 32 to 122 °F
 Applied pressure : 0 kPa



2. - ③ Overall accuracy (Rated output voltage)

ADP5100
 Drive voltage : 5 V
 Temperature : 0 to 50 °C 32 to 122 °F
 Applied pressure : +100 kPa



Reference data

[Low pressure type]

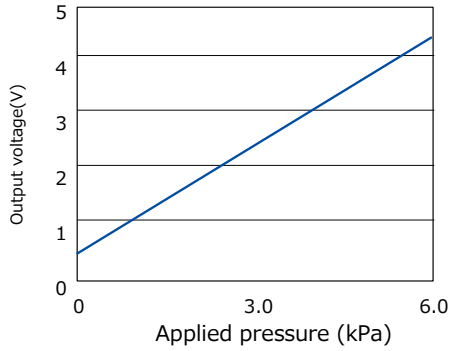
1. Output voltage

ADP51B61

Drive voltage : 5 V

Temperature : 25 °C 77 °F

Applied pressure : 0 to 6 kPa



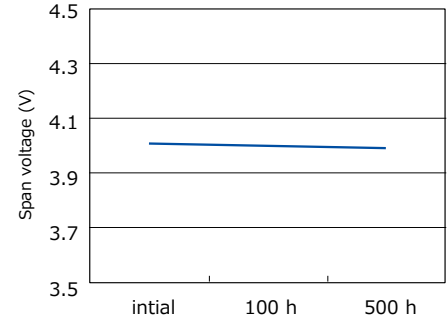
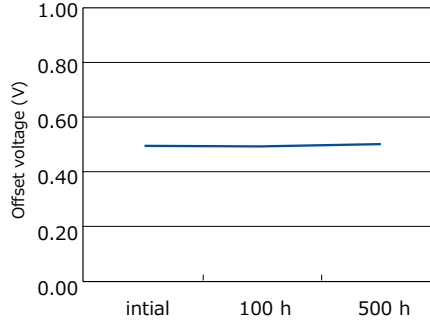
2. THB (high temperature high humidity bias test)

ADP51B61

Within 85 °C 185 °F and 85% RH

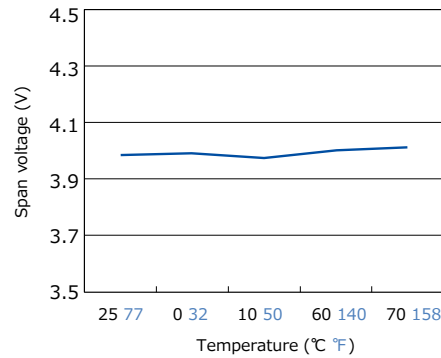
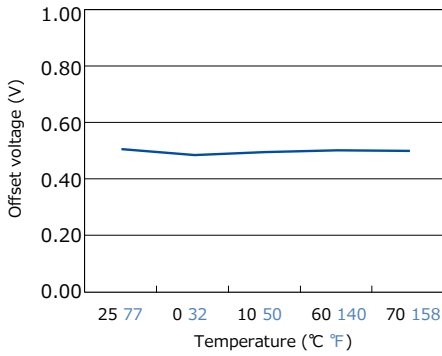
5 V applied between No.2 (Vdd) and No.3 (GND)

Applied pressure : 0 kPa



3. Ambient temperature characteristics

Ambient temperature : 25 °C 77 °F → 0 °C 32 °F → 10 °C 50 °F → 60 °C 140 °F → 70 °C 158 °F

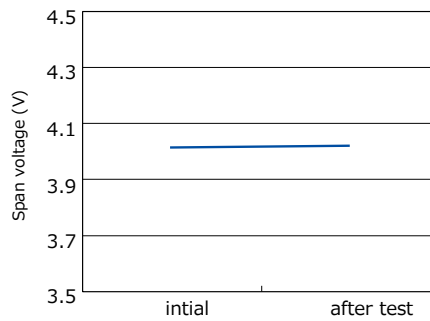
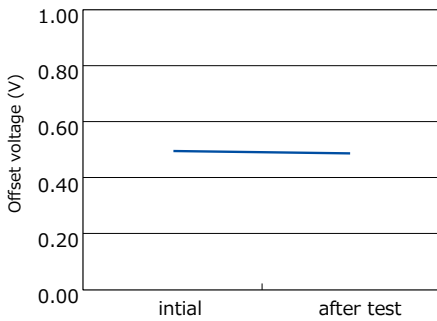


4. Shock test

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Shock applied (981 m/s², 3 times in x, y and z directions)

Applied pressure : 0 kPa



5. Vibration test

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Vibration applied (10 to 55 Hz, amplitude : 1.5mm, x, y and z directions, 2 hrs each)

Applied pressure : 0 kPa

