## 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 ℃ to +70 ℃ 32 ℉ to +158 ℉ (no freezing or condensation) |
| Storage temperature | −30 ℃ to +100 ℃ −22 ℉ to +212 ℉ (no freezing or condensation) |
| Drive voltage | 5±0.25 V |
| Temperature compensation range | 0 ℃ to 70 ℃ 32 ℉ to 158 ℉ |
| 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 |

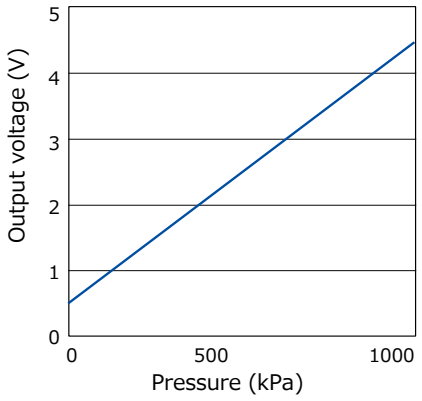
*1: Please consult us for pressure media other than air.
*2: Indicates output when drive voltage is 5 V. Although output fluctuates due to fluctuations in the drive voltage, this is not included.
*3: Overall accuracy indicates the accuracy of the offset voltage and span voltage at temperatures between 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]

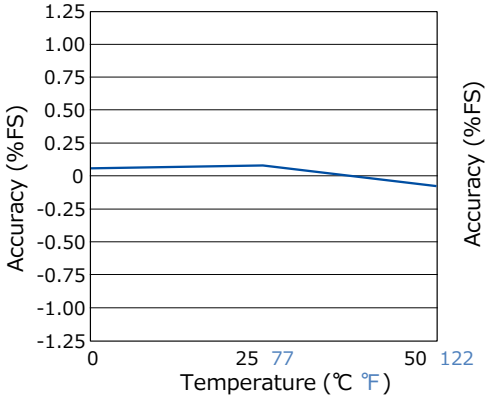
1. −① Output voltage

ADP5170
Drive voltage : 5 V
Temperature : 25 ℃ 77 ℉
Applied pressure : 0 to +1,000 kPa



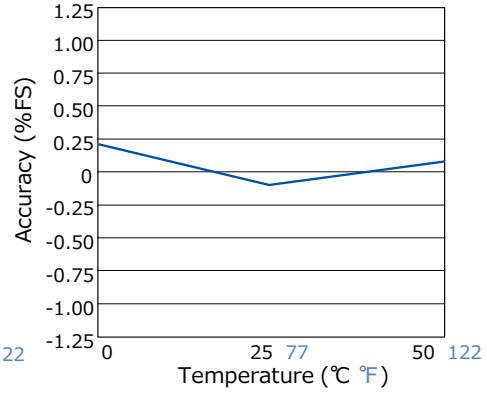

1. −② Overall accuracy (Offset voltage)

ADP5170
Drive voltage : 5 V
Temperature : 0 to 50 ℃ 32 to 122 ℉
Applied pressure : 0 kPa



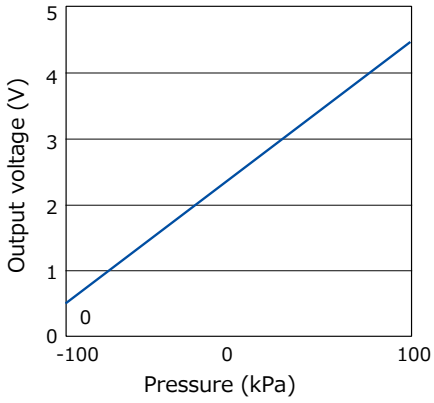

1. −③ Overall accuracy (Rated output voltage)

ADP5170
Drive voltage : 5 V
Temperature. : 0 to 50 ℃ 32 to 122 ℉
Applied pressure : +1,000 kPa



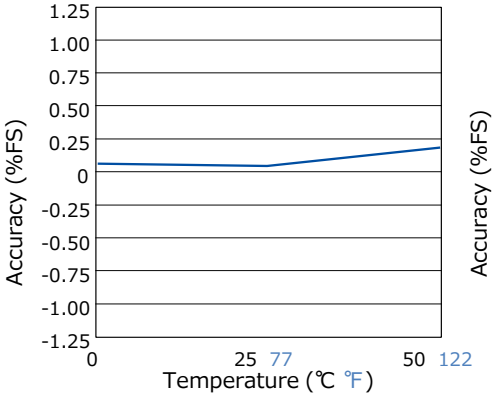

2. −① Output voltage

ADP5100
Drive voltage : 5 V
Temperature : 25 ℃ 77 ℉
Applied pressure : -100 to +100 kPa



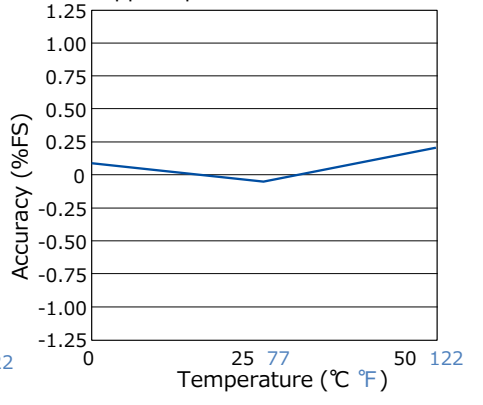

2. −② Overall accuracy (Offset voltage)

ADP5100
Drive voltage : 5 V
Temperature : 0 to 50 ℃ 32 to 122 ℉
Applied pressure : 0 kPa




2. −③ Overall accuracy (Rated output voltage)

ADP5100
Drive voltage : 5 V
Temperature : 0 to 50 ℃ 32 to 122 ℉
Applied pressure : +100 kPa

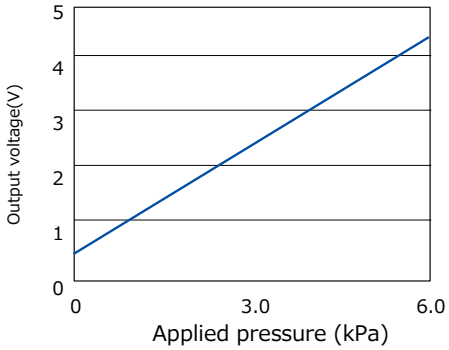


## Reference data

### [Low pressure type]

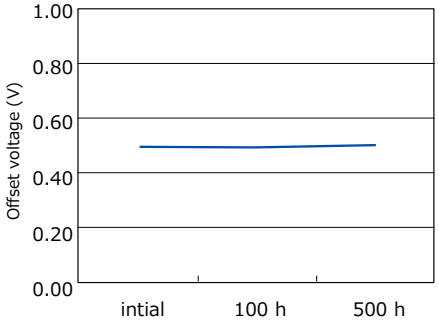
1. Output voltage

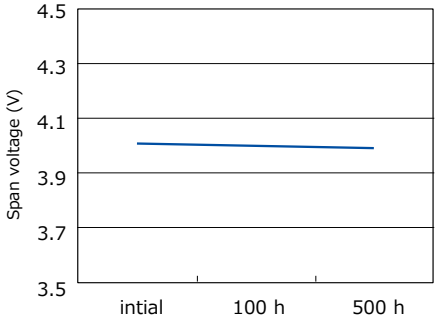
ADP51B61
Drive voltage : 5 V
Temperature : 25 ℃ 77 ℉
Applied pressure : 0 to 6 kPa




2. THB (high temperature high humidity bias test)

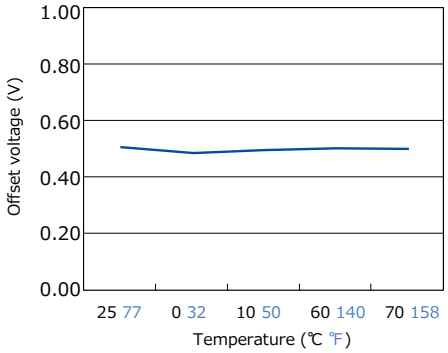
ADP51B61
Within 85 ℃ 185 ℉ and 85% RH
5 V applied between No.2 (Vdd) and No.3 (GND)
Applied pressure : 0 kPa

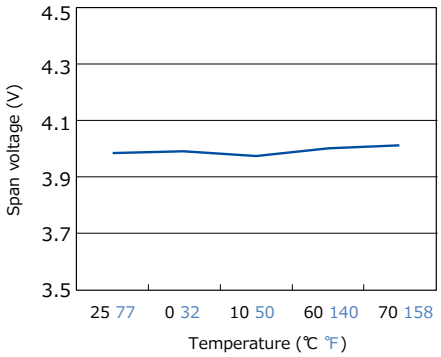



3. Ambient temperature characteristics

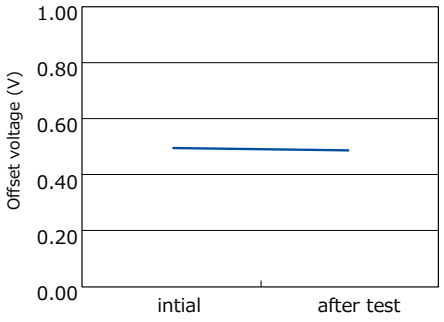
Ambient temperature : 25 ℃ 77 ℉ → 0 ℃ 32 ℉→ 10 ℃ 50 ℉ → 60 ℃ 140 ℉ → 70 ℃ 158 ℉

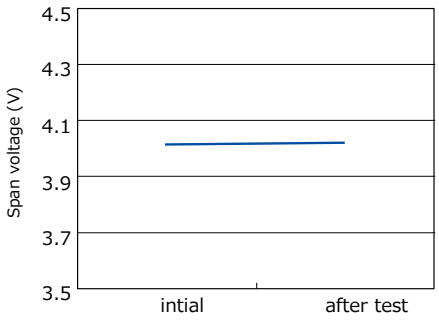



4. Shock test

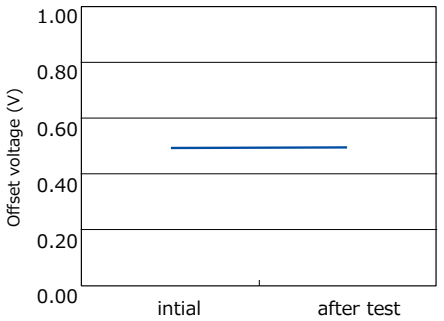
ADP51B61
Shock applied (981 m/s$^2$, 3 times in x, y and z directions)
Applied pressure : 0 kPa

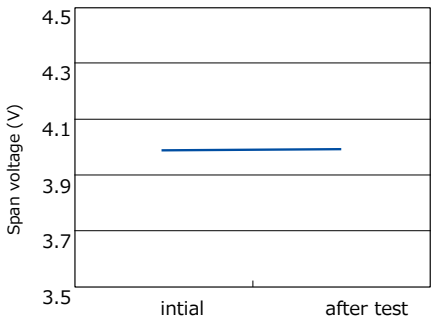



5. Vibration test

ADP51B61
Vibration applied (10 to 55 Hz, amplitude : 1.5mm, x, y and z directions, 2 hrs each)
Applied pressure : 0 kPa




Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.