

Additel Pressure Gauge Selection Guide



| Series Feature | ADT681A | ADT680A | ADT680P | ADT601Ex | ADT685 | ADT686 | ADT673 |
|---|--|---|---|------------------------------------|---|---|---|
| Gauge Pressure | • | • | • | • | • | • | • |
| Compound Pressure | • | • | • | | • | • | • |
| Absolute Pressure | • | | | | • | • | • |
| Differential Pressure | • | | | | • | • | • |
| Range | -15 to 60K psi (-1 to 4200 bar) | -15 to 60K psi (-1 to 4200 bar) | -15 to 60K psi (-1 to 4200 bar) | -15 to 15K psi (-1 to 1000 bar) | -15 to 60K psi (-1 to 4200 bar) | -15 to 60K psi (-1 to 4200 bar) | -15 to 60K psi (-1 to 4200 bar) |
| Available Accuracies (range dependent) | 0.02%, 0.05%, 0.1%, 0.2%FS & 0.1%RD | 0.1%, 0.2%FS | 0.02%, 0.05%, 0.1%, 0.2%FS & 0.1%RD | 0.5%FS | 0.02%, 0.05%, 0.1%, 0.2%FS & 0.1%RD | 0.02%, 0.05%, 0.1%, 0.2%FS & 0.1%RD | 0.02%, 0.05%, 0.1%, 0.2%FS & 0.1%RD |
| Digital Display | • | • | • | • | • | • | • |
| Analog Display (Fan-Shaped Indication) | • | | | | • | | |
| Fully Temperature Compensation from -10°C to 50°C | • | • | • | -20 to 50°C | • | • | • |
| Resolution | 5, 6 digits | 4, 5 digits | 4, 5 digits | 4 digits | 5 1/2 digits | 4, 5, 6 digits | 4, 5, 6 digits |
| Selectable Pressure Units | 12 & 1 customized units | 12 & 1 customized units | 12 & 1 customized units | 12 | 11 & 3 customized units | 11 & 5 customizable units | 11 & 5 customizable units |
| Backlight | • | • | • | • | • | • | • |
| Over Pressure Indication | • | • | • | • | • | • | • |
| IP67 | • | • | • | • | • | • | • |
| Intrinsically Safe | ADT681AEx | ADT680AEx | ADT680PEX | • | ADT685Ex | | |
| Communication | BLE, USB, RS232 | BLE, RS232 | BLE, RS232 | BLE | BLE, USB, RS232, RS485(optional) | BLE, USB, RS232, RS485, WIFI(optional) | BLE, USB, RS232, RS485, WIFI(optional) |
| Data Logging | • | • | • | | • | • | • |
| Min/Max | • | • | • | • | • | • | • |
| Built-in Leak Test | • | | | | • | • | • |
| HART | | | | | | | • |
| Measure mA and V | | | | | | | • |
| 24V Loop Power | | | | | | | • |
| Switch Test | | | | | | | • |
| NIST-Traceable Certificate of Calibration | • | • | • | • | • | • | • |
| Power | 3 AA Aalkaline batteries (power supply through USB is optional, adapter not for Ex) | 3 AA Aalkaline batteries (External power supply through RS232 cable, adapter not for Ex) | 3 AA Aalkaline batteries (External power supply through RS232 cable, adapter not for Ex) | 3 AA batteries | 3 AA batteries & 120/220V adapter is optional(adapter not for Ex) | Rechargeable battery (120/220V adapter is optional) | Rechargeable battery (120/220V adapter is optional) |



Metrology Made Simple

| Series | Pressure Range | | Media | ADT681A | ADT680A | ADT680P | ADT601Ex | ADT685 | ADT686 | ADT673 |
|--------------------|----------------|-----------|-------|---------|---------|---------|----------|--------|--------|--------|
| | psi | bar | | | | | | | | |
| Gauge | | | | | | | | | | |
| V15 ^[1] | -15 to 0 | -1 to 0 | G | • | | | | • | • | • |
| V15 | -15 to 0 | -1 to 0 | G, L | • | • | • | • | | | |
| GP2 | 0 to 2 | 0 to 0.16 | G | • | | | | | | |
| GP5 | 0 to 5 | 0 to 0.35 | G | | | | | • | • | • |
| GP5 | 0 to 5 | 0 to 0.35 | G, L | • | • | • | | | | |
| GP10 | 0 to 10 | 0 to 0.7 | G, L | • | • | • | | • | • | • |
| GP15 | 0 to 15 | 0 to 1 | G, L | • | • | • | • | • | • | • |
| GP30 | 0 to 30 | 0 to 2 | G, L | • | • | • | • | • | • | • |
| GP50 | 0 to 50 | 0 to 3.5 | G, L | • | • | • | • | • | • | • |
| GP100 | 0 to 100 | 0 to 7 | G, L | • | • | • | • | • | • | • |
| GP150 | 0 to 150 | 0 to 10 | G, L | • | • | • | • | • | • | • |
| GP300 | 0 to 300 | 0 to 20 | G, L | • | • | • | • | • | • | • |
| GP500 | 0 to 500 | 0 to 35 | G, L | • | • | • | • | • | • | • |
| GP600 | 0 to 600 | 0 to 40 | G, L | • | • | • | | • | • | • |
| GP1K | 0 to 1K | 0 to 70 | G, L | • | • | • | • | • | • | • |
| GP1.5K | 0 to 1.5K | 0 to 100 | G, L | • | • | • | • | • | • | • |
| GP2K | 0 to 2K | 0 to 140 | G, L | • | • | • | | • | • | • |
| GP3K | 0 to 3K | 0 to 200 | G, L | • | • | • | • | • | • | • |
| GP5K | 0 to 5K | 0 to 350 | G, L | • | • | • | • | • | • | • |
| GP10K | 0 to 10K | 0 to 700 | G, L | • | • | • | • | • | • | • |
| GP15K | 0 to 15K | 0 to 1K | G, L | • | • | • | • | • | • | • |
| GP20K | 0 to 20K | 0 to 1.4K | G, L | • | • | • | | • | • | • |
| GP25K | 0 to 25K | 0 to 1.6K | G, L | • | • | • | | • | • | • |
| GP30K | 0 to 30K | 0 to 2K | G, L | • | • | • | | • | • | • |
| GP36K | 0 to 36K | 0 to 2.5K | G, L | • | • | • | | • | • | • |
| GP40K | 0 to 40K | 0 to 2.8K | G, L | • | • | • | | • | • | • |
| GP50K | 0 to 50K | 0 to 3.5K | G, L | • | • | • | | • | • | • |
| GP60K | 0 to 60K | 0 to 4.2K | G, L | • | • | • | | • | • | • |

[1] 0.02% FS for gas media only, 0.05% FS for gas and liquid media.



Metrology Made Simple

| Series | Pressure Range | | Media | ADT681A | ADT680A | ADT680P | ADT601Ex | ADT685 | ADT686 | ADT673 |
|---------------------|--------------------|-----------|-------|---------|---------|---------|----------|--------|--------|--------|
| | inH ₂ O | mbar | | | | | | | | |
| Compound | | | | | | | | | | |
| CP2 | ±2 | ±0.16 | G | • | | | | • | • | • |
| CP5 | ±5 | ±0.35 | G, L | • | • | • | | • | • | • |
| CP10 | ±10 | ±0.7 | G, L | • | • | • | | • | • | • |
| CP15 | ±15 | ±1.0 | G, L | • | • | • | | • | • | • |
| CP30 | -15 to 30 | -1 to 2.0 | G, L | • | • | • | | • | • | • |
| CP50 | -15 to 50 | -1 to 3.5 | G, L | • | • | • | | | | |
| CP100 | -15 to 100 | -1 to 7.0 | G, L | • | • | • | | • | • | • |
| CP150 | -15 to 150 | -1 to 10 | G, L | • | • | • | | • | • | • |
| CP300 | -15 to 300 | -1 to 20 | G, L | • | • | • | | • | • | • |
| CP500 | -15 to 500 | -1 to 35 | G, L | • | • | • | | | | |
| CP600 | -15 to 600 | -1 to 40 | G, L | • | • | • | | | | |
| CP1K | -15 to 1000 | -1 to 70 | G, L | • | • | • | | | | |
| Differential | | | | | | | | | | |
| DP1 | ±1 | ±2.5 | G | • | | | | • | • | • |
| DP2 | ±2 | ±5 | G | • | | | | • | • | • |
| DP5 | ±5 | ±10 | G | • | | | | • | • | • |
| DP10 | ±10 | ±25 | G | • | | | | • | • | • |
| DP20 | ±20 | ±50 | G | • | | | | • | • | • |
| DP30 | ±30 | ±75 | G | • | | | | • | • | • |
| DP50 | ±50 | ±160 | G | • | | | | • | • | • |
| DP150 | ±150 | ±350 | G | • | | | | • | • | • |
| DP300 | ±300 | ±700 | G | • | | | | • | • | • |