

# 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<br>(-1 to 4200 bar)                                                     | -15 to 60K psi<br>(-1 to 4200 bar)                                                          | -15 to 60K psi<br>(-1 to 4200 bar)                                                          | -15 to 15K psi<br>(-1 to 1000 bar) | -15 to 60K psi<br>(-1 to 4200 bar)                                | -15 to 60K psi<br>(-1 to 4200 bar)                  | -15 to 60K psi<br>(-1 to 4200 bar)                  |
| Available Accuracies<br>(range dependent)         | 0.02%, 0.05%,<br>0.1%, 0.2%FS<br>& 0.1%RD                                              | 0.1%, 0.2%FS                                                                                | 0.02%, 0.05%,<br>0.1%, 0.2%FS<br>& 0.1%RD                                                   | 0.5%FS                             | 0.02%, 0.05%,<br>0.1%, 0.2%FS<br>& 0.1%RD                         | 0.02%, 0.05%,<br>0.1%, 0.2%FS<br>& 0.1%RD           | 0.02%, 0.05%,<br>0.1%, 0.2%FS<br>& 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<br>(power supply through USB is optional, adapter not for Ex) | 3 AA Aalkaline batteries<br>(External power supply through RS232 cable, adapter not for Ex) | 3 AA Aalkaline batteries<br>(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) |

| Series<br>Pressure | Pressure Range |           | Media | ADT681A | ADT680A | ADT680P | ADT601Ex | ADT685 | ADT686 | ADT673 |
|--------------------|----------------|-----------|-------|---------|---------|---------|----------|--------|--------|--------|
|                    | psi            | bar       |       |         |         |         |          |        |        |        |
| Gauge              |                |           |       |         |         |         |          |        |        |        |
| V15 <sup>[1]</sup> | -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.

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|--------------------|--------------------|-----------|-------|---------|---------|---------|----------|--------|--------|--------|
|                    | inH <sub>2</sub> 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     | ●       |         |         |          | ●      | ●      | ●      |