Ambit Instruments manufactures quality explosion proof differential pressure instruments are used in environment containing hazardous vapours, gases, or particulates.

Switches and electrical connections are mounted in special UL, CSA, FM, CENELEC approved enclosure. The cast Aluminium housing has a provision of two mounting slots, two ¾” NPT electrical conduit ports.

They meet following specifications:
Class I, Gr. B, C & D, Class II, Gr. E, F & G; and Class III. They also meet NEMA 3, 4X, 7, 9 & 12 specifications.

The instruments can be equipped with 1 or 2 SPST or SPDT reed switches.

APPLICATIONS:
Hazardous locations in petrochemical industries, process industries, explosive conditions, and oilfield sectors.

EXPLOSION PROOF

SALIENT FEATURES
- Cost effective and reliable.
- Simple and compact design.
- Available in piston and diaphragm sensors.
- Adjustable reed contact switching.
- Gauge+ switch or only switch models.
- Manufactured in ISO certified plant.
- Exported worldwide.
OPERATING PRINCIPLE

Variations in pressure between high and low ports is sensed by a piston or diaphragm sensor which moves in proportion to the pressure difference. A primary magnet is attached to the sensor and moves with it in the same proportion. A rotary magnet with pointer is magnetically coupled with the primary magnet, and is situated in an isolated cavity. Movement of rotary magnet with pointer indicates differential pressure on the dial. Process fluids are isolated from dial case and switch enclosure.

An auxiliary magnet situated in the tube extension also moves with the pressure sensors. Reed switches mounted on the extension tube are activated due to interaction between switch contacts and field of auxiliary magnet. Switches can be adjusted to open or close at preset points.

TECHNICAL DATA

Explosion proof differential pressure instruments are same as our standard differential pressure instruments where high pressure side is modified with an extension tube and is housed in an explosion proof box in which switches are also located.

<table>
<thead>
<tr>
<th>Model</th>
<th>200 DPG</th>
<th>200 DGR</th>
<th>300 DGC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor</td>
<td>Piston</td>
<td>Rolling diaphragm</td>
<td>Small convoluted diaphragm</td>
</tr>
<tr>
<td>Max. Operating pressure</td>
<td>200 bar / 3000 psi</td>
<td>200 bar / 3000 psi</td>
<td>100 bar / 1500 psi</td>
</tr>
<tr>
<td>Max. Differential pressure</td>
<td>10 bar / 150 psi</td>
<td>7 bar / 100 psi</td>
<td>4 bar / 60 psi</td>
</tr>
</tbody>
</table>

HOW TO ORDER

Select a model from individual model data sheets and add “EX” at the beginning of the product code. Also indicate if it is required with or without explosion proof box.

Limitations: 1) As per individual data sheets.
2) We do not recommend flange mounting as explosion box is heavy (1.40 kg / 3.10 Lbs.)
3) High and Low ports are on the right side only, however back connections can also be given.
PISTON Specifications

Accuracy: ±2% of the FSD (Ascending)
Migration: Minor from high to low port
Range: 0-0.25 to 0-10 bar or equivalent range in other units
First marking on the scale: 20% of the FSD
Sensing element: Piston
Wetted parts: Body material, SS 302 spring, ceramic magnet & seals
Case material & dial size: Stainless steel (SS 304): 2.5", 3.5", 4", 4.5", 6.0"
Engineering polymer: 2.5", 4.5", 6.0"
Mounting: Surface, 2" pipe mountings
Maximum working pressure: 200 bar for Aluminum & Brass, 400 bar for SS & Monel
Maximum process temperature: 0 to 80°C (32 to 175°F)
Body material: Aluminum, Brass, SS 316, Monel
Seals: Buna-N, Viton, EPDM
Window: Float glass (Std.), toughened glass, acrylic & safety glass.
Connection: 1/4" NPT(F) (Std.), 1/4" BSP(F) (Opt.)
Porting: Bottom (right side), back
Over range protection: Up to the max. working pressure from high & low side
Protection for gauge & switch: IP 65 / NEMA-4
Options: Switches (Adjustable in 20-100% of FSD)

EX 200DPG

ΔP Range: 0 to 0.25 upto 10 bar
0 to 5 upto 150 psi

Combinations

Gauge+switch (with a terminal strip inside)
Gauge+switch (Without Ex-proof enclosure)
Switch
Switch* (Without Ex-proof enclosure)

*Locally available explosion proof enclosures can be used

ASSEMBLY

Ex-proof enclosure make: Akron Electric (USA)

Compliance to EN 50 014: 1977 + A1, A2, A5 and EN 50 018: 1977 + A1, A3

Certification: UL, CSA, FM, CE, ECC, KEMA / ATEX approved

Electrical connection: 2 x 1/4" NPT conduit ports on either side as shown

Mounting: Two slots provided suitable for M6 / 1/4" UNC screw

Enclosure Approvals

MOUNTING BRACKETS

Horizontal pipe mounting
Vertical pipe mounting
Surface mounting

Filter mesh in (+) connection
Descending calibration

Ambit Instruments Pty Ltd.
42 Titan Drive, Carrum Downs, Victoria 3201, Australia
Phone: +61 3 9776 8888
Fax: +61 3 9776 6656
Email: contact@ambitinst.com.au
Website: www.ambitinst.com.au
**SELECT MODEL**

1 Series  EX 200DPG
2 Type  GS Gauge + Switch  S Switch
3 Body material  A Aluminum  B Brass  S SS-316  M Monel
4 Dial size  2.5" (63 mm)  3.5" (80 mm)  4.0" (100 mm)
5 Connection  4N 1/4" NPT (F) (Std.)  4B 1/4" BSP (F)  ZZ Special connection sizes using adaptor
6 Porting  3 Bottom (Right side)  2 Back
7 Case  S4 SS 304 (Std.)  S6 SS 316  F4 SS 304 flange  EP Engineering polymer (available in 2.5", 4.5", 6" only)
8 Window  F Glass (Std.)  A Acrylic  T Toughened glass  L Safety glass
9 Seals/Diaphragm  B Buna-N (Std.)  E EPDM  V Viton
10 Switch
   - Select option & Specifications
   - 0 None
   - 2 One SPST, with a terminal strip
   - 4 Two SPSTs, with a terminal strip
   - 6 One SPDT, with a terminal strip
   - 8 Two SPDTs, with a terminal strip

**Advantages:**
- Instrument automatically resets after line surges and cold start.
- This eliminates balancing of differential pressure instrument after such events.

**Notes:**
- Both enclosures have provision for surface mounting.
- For SS 316 case, please contact factory (MOQ applies).
- Liquid filling + Follower pointer available.
- Switch adjustment range between 20-100% of full scale deflection (FSD). For specific details, please contact factory.
- Minimum Order Quantity (MOQ) applies for 6.0" (150mm) dial.
- For electrical connection details, please refer to the datasheet.
- Mounting bracket: Aluminum (Standard) ; SS (Optional)

- Contact factory for special execution.

**Ordering code sequence**

**Series**

- **Options**
  - 0 None
  - A Glycerine *
  - B Red follower pointer on acrylic window *
  - C Customer Logo
  - D Dual scale
  - E Colour band
  - F Filter mesh in (+) connection
  - H Descending calibration (long delivery time)
  - N NACE
  - S Silicone oil*
  - I Oxygen service (Contact factory)
  - K 32mm thick body for high pressure application
  - M1 2" horizontal pipe mounting bracket
  - M2 2" vertical pipe mounting bracket
  - * Affects accuracy

**12 Options**

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Body material</th>
<th>Dial size</th>
<th>Connection</th>
<th>Porting</th>
<th>Case</th>
<th>Window</th>
<th>Seal / Diaphragm</th>
<th>Switch</th>
<th>Range</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
</tbody>
</table>

- Contact factory for special execution.
EX 200DGR

**Specifications**

- **Accuracy**: ±2% of the FSD (Ascending)
- **Migration**: No migration. Zero leakage from high to low port
- **Range**: 0-0.25 to 0-7 bar or equivalent range in other units
- **First marking on the scale**: 15% of the FSD
- **Sensing element**: Diaphragm
- **Wetted parts**: Diaphragm, Body material, SS 302 spring & ceramic magnet
- **Case material & dial size**: Stainless steel (SS 304): 2.5", 3.5", 4", 4.5", 6.0"
- **Mounting**: Surface, 2" pipe mounting
- **Maximum working pressure**: 200 bar / 3000 psi
- **Maximum process temperature**: 0 to 80°C (32 to 175°F)
- **Body material**: Aluminum, Brass, SS 316, Monel
- **Diaphragm**: Buna-N, Viton, EPDM
- **Window**: Float glass (Std.), toughened glass, acrylic & safety glass.
- **Connection**: 1/4" NPT(F) (Std.), 1/4" BSP(F) through adaptor
- **Porting**: Bottom (right side), back
- **Over range protection**: Up to the max. working pressure from high side only
- **Protection for gauge & switch**: IP 65 / NEMA-4

**Options**

- **Switches**: (Adjustable in 30-100% of FSD)
- **Liquid filling (glycerine/ silicone)**: 1 or 2 SPSTs with a terminal strip
- **Red follower pointer**: 1 or 2 SPDTs with a terminal strip
- **Customer logo**: Dual scale
- **Color band**: Filter mesh in (+) connection
- **Descending calibration**: Available in engineering polymer (EP) Case

- **Removable glass**
- **Strong and durable**
- **Panel mounting possible**
- **Condensation can be cleaned**
- **Light weight**

**Ex-proof enclosures**

- **Albro Electric USA**: UL, CSA, FM, CE/NEMC, KEMA / ATEX approved
- **Certification**: Compliance to EN 50 014:1977 +A1...A5 and EN 50 018: 1977 +A1...A3
- **Ref**: UL E139969 / CSA LR86146-5
- **Enclosure Approvals**: Available in engineering polymer (EP) Case

**MOUNTING BRACKETS**

- **Horizontal pipe mounting**
- **Vertical pipe mounting**
- **Surface mounting**

---

*Locally available explosion proof enclosures can be used*
### SELECT MODEL

<table>
<thead>
<tr>
<th>1 Series</th>
<th>EX 200DGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Type</td>
<td>GS Gauge + Switch S Switch</td>
</tr>
<tr>
<td>3 Body material</td>
<td>A Aluminum B Brass S SS-316 M Monel</td>
</tr>
<tr>
<td>4 Dial size</td>
<td>2.5&quot; (63 mm) 3.5&quot; (80 mm) 4.0&quot; (100 mm)</td>
</tr>
<tr>
<td>5 Connection</td>
<td>4N 1/4&quot; NPT(F) (Std.) 4B 1/4&quot; BSP(F) (MOQ) ZZ Special connection sizes using adaptor</td>
</tr>
<tr>
<td>6 Porting</td>
<td>3 Bottom (Right side) 2 Back</td>
</tr>
<tr>
<td>7 Case</td>
<td>S4 SS 304 (Std.) S6 SS 316 F4 SS 304 flange EP Engineering polymer (available in 2.5&quot;, 4.5&quot;, 6&quot; only)</td>
</tr>
<tr>
<td>8 Window</td>
<td>F Glass (Std.) A Acrylic T Toughened glass L Safety glass</td>
</tr>
<tr>
<td>9 Seals/Diaphragm</td>
<td>B Buna-N (Std.) E EPDM V Viton</td>
</tr>
<tr>
<td>10 Switch</td>
<td>Select option &amp; Specifications</td>
</tr>
</tbody>
</table>

#### Advantages:
- Instrument automatically resets after line surges and cold start. This eliminates balancing of differential pressure instrument after such events.

#### Notes:
- Both enclosures have provision for surface mounting.
- For SS 316 case, please contact factory (MOQ applies).
- Liquid filling + Follower pointer available.
- Switch adjustment range between 30-100% of full scale deflection (FSD). For specific details, please contact factory.
- Minimum Order Quantity (MOQ) applies for 6.0" (150mm) dial.
- For electrical connection details, please refer to the datasheet.
- Mounting bracket: Aluminum (Standard); SS (Optional)

#### Ordering code sequence

Contact factory for special execution.

### SPST Specifications (AC/DC max)

<table>
<thead>
<tr>
<th>1 Standard</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 VA</td>
<td>40 VA</td>
<td>100 VA</td>
<td>60 VA</td>
</tr>
<tr>
<td>100 V</td>
<td>230 V</td>
<td>300 V</td>
<td>240 V</td>
</tr>
<tr>
<td>0.5 Amp</td>
<td>1 Amp</td>
<td>1 Amp</td>
<td>3 Amp</td>
</tr>
<tr>
<td>Adjustable</td>
<td>Adjustable</td>
<td>Adjustable</td>
<td>Adjustable</td>
</tr>
</tbody>
</table>

### SPDT Specifications (AC/DC max)

<table>
<thead>
<tr>
<th>1 Standard</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 VA</td>
<td>5 VA</td>
<td>5 VA</td>
</tr>
<tr>
<td>30 V</td>
<td>125 V</td>
<td>175 V</td>
</tr>
<tr>
<td>0.3 Amp</td>
<td>0.25 Amp</td>
<td>0.25 Amp</td>
</tr>
<tr>
<td>Adjustable</td>
<td>Adjustable</td>
<td>Adjustable</td>
</tr>
</tbody>
</table>

### Standard ranges : (Other ranges & units on request)

<table>
<thead>
<tr>
<th>Kg/cm²</th>
<th>0.25</th>
<th>0.75</th>
<th>1</th>
<th>2</th>
<th>2.5</th>
<th>4</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
<td>0.25</td>
<td>0.75</td>
<td>1</td>
<td>2</td>
<td>2.5</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>mbar</td>
<td>250</td>
<td>750</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>psi</td>
<td>-</td>
<td>5</td>
<td>15</td>
<td>25</td>
<td>30</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>kPa</td>
<td>25</td>
<td>50</td>
<td>75</td>
<td>100</td>
<td>200</td>
<td>250</td>
<td>400</td>
</tr>
</tbody>
</table>

### 12 Options

<table>
<thead>
<tr>
<th>0 None</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Glycerine *</td>
</tr>
<tr>
<td>B Red follower pointer on acrylic window *</td>
</tr>
<tr>
<td>C Customer Logo</td>
</tr>
<tr>
<td>D Dual scale</td>
</tr>
<tr>
<td>E Colour band</td>
</tr>
<tr>
<td>F Filter mesh in (+) connection</td>
</tr>
<tr>
<td>H Descending calibration (long delivery time)</td>
</tr>
<tr>
<td>N NACE</td>
</tr>
<tr>
<td>S Silicone oil*</td>
</tr>
<tr>
<td>I Oxygen service (Contact factory)</td>
</tr>
<tr>
<td>M1 &amp; M2 vertical pipe mounting bracket</td>
</tr>
</tbody>
</table>

* Affects accuracy
EX 300DGC

ΔP Range: 0 to 0.075 upto 4 bar
0 to 1 upto 60 psi

**Specifications**

**Accuracy**  ±2% of the FSD (Ascending)

**Migration**  No migration. Zero leakage from high to low port

**Range**  0-0.075 to 0-4 bar or equivalent range in other units

**First marking on the scale**  15% of the FSD

**Sensing element**  Diaphragm

**Wetted parts**  Diaphragm, body material, SS 302 spring & ceramic magnet

**Case material & dial size**  Stainless steel (SS 304): 2.5", 3.5", 4", 4.5", 6.0"

**Engineering polymer**  2.5", 4.5", 6.0"

**Mounting**  As per the explosion proof box drawings

**Maximum working pressure**  100 bar / 1500 psi

**Maximum process temperature**  0 to 80°C (32 to 175°F)

**Body material**  Aluminum, Brass, SS 316, Monel

**Diaphragm**  Buna-N, Viton, EPDM

**Window**  Float glass(Std.), toughened glass, acrylic & safety glass.

**Connection**  1/4" NPT(F) (Std.), 1/4" BSP(F) through adaptor

**Porting**  Bottom (right side), back

**Over range protection**  Up to the max. working pressure from high side

**Protection for gauge & switch**  IP 65 / NEMA-4

**Options**

- Switches (Adjustable in 30-100% of FSD)
  - Liquid filling (glycerine/ silicone)
  - Red follower pointer
  - Dual scale
  - Color band
  - Filter mesh in (+) connection
  - Descending calibration

**Switches**

- Switch (with a terminal strip inside)
- Switch (Without Ex-proof enclosure)
- Gauge + switch (with a terminal strip inside)
- Gauge + switch (Without Ex-proof enclosure)

**Enclosure Approvals**

- Available in engineering polymer (EP) Case
  - Removable glass
  - Strong and durable
  - Panel mounting possible
  - Condensation can be cleaned
  - Light weight

**MOUNTING BRACKETS**

- Surface mounting
- Horizontal pipe mounting
- Vertical pipe mounting

**ASSEMBLY**

- 2X 1/4" NPT conduit ports on either side as shown
- Two slots provided suitable for M8 / 1/4" UNC screw

---

*Locally available explosion proof enclosures can be used*
### SELECT MODEL

<table>
<thead>
<tr>
<th>1 Series</th>
<th>EX 300DGC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Type</td>
<td>GS</td>
</tr>
<tr>
<td>3 Body material</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>S</td>
</tr>
<tr>
<td>4 Dial size</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>3.5</td>
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<td></td>
<td>4.0</td>
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<td>5 Connection</td>
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<td>ZZ</td>
</tr>
<tr>
<td>6 Porting</td>
<td>3</td>
</tr>
<tr>
<td>7 Case</td>
<td>S4</td>
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<td>F4</td>
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<td></td>
<td>EP</td>
</tr>
<tr>
<td>8 Window</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>T</td>
</tr>
<tr>
<td>9 Seals/Diaphragm</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>V</td>
</tr>
</tbody>
</table>

### 10 Switch

<table>
<thead>
<tr>
<th>Select option &amp; Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

### 11 Range

**Standard ranges:** (Other ranges & units on request)

<table>
<thead>
<tr>
<th>Kg/cm²</th>
<th>0.075</th>
<th>0.25</th>
<th>-</th>
<th>0.5</th>
<th>0.75</th>
<th>1</th>
<th>-</th>
<th>1.6</th>
<th>2</th>
<th>2.5</th>
<th>3</th>
<th>-</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>bar</td>
<td>0.075</td>
<td>0.25</td>
<td>-</td>
<td>0.5</td>
<td>0.75</td>
<td>1</td>
<td>-</td>
<td>1.6</td>
<td>2</td>
<td>2.5</td>
<td>3</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>mbar</td>
<td>75</td>
<td>250</td>
<td>-</td>
<td>750</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>psi</td>
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<td>-</td>
<td>15</td>
<td>20</td>
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<tr>
<td>kPa</td>
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<td>75</td>
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<td>-</td>
<td>160</td>
<td>200</td>
<td>250</td>
<td>300</td>
<td>-</td>
<td>400</td>
</tr>
</tbody>
</table>

### 12 Options

| 0 | None |
| 1 | Glycerine * |
| 2 | Red follower pointer on acrylic window * |
| 3 | Customer Logo |
| 4 | Dual scale |
| 5 | Colour band |
| 6 | Filter mesh in (+) connection |
| 7 | Descending calibration (long delivery time) |
| 8 | NACE |
| 9 | Silicone oil* |
| 10 | Oxygen service (Contact factory) |
| 11 | 2” horizontal pipe mounting bracket |
| 12 | 2” vertical pipe mounting bracket |

* Affects accuracy

### Advantages:

Instrument automatically resets after line surges and cold start. This eliminates balancing of differential pressure instrument after such events.

### Notes

- Both enclosures have provision for surface mounting.
- For SS 316 case, please contact factory (MOQ applies).
- Liquid filling + Follower pointer available.
- Switch adjustment range between 20-100% of full scale deflection (FSD). For specific details, please contact factory.
- Minimum Order Quantity (MOQ) applies for 6.0” (150mm) dial.
- For electrical connection details, please refer to the datasheet.
- Mounting bracket: Aluminum (Standard), SS (Optional)

### SPST Specifications (AC/DC max)

<table>
<thead>
<tr>
<th>1 Standard</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 VA</td>
<td>40 VA</td>
<td>100 VA</td>
<td>60 VA</td>
</tr>
<tr>
<td>230 V</td>
<td>300 V</td>
<td>240 V</td>
<td></td>
</tr>
<tr>
<td>1 Amp</td>
<td>1 Amp</td>
<td>3 Amp</td>
<td></td>
</tr>
<tr>
<td>Adjustable</td>
<td>Adjustable</td>
<td>Adjustable</td>
<td></td>
</tr>
</tbody>
</table>

### SPDT Specifications (AC/DC max)

<table>
<thead>
<tr>
<th>1 Standard</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 VA</td>
<td>5 VA</td>
<td>5 VA</td>
</tr>
<tr>
<td>125 V</td>
<td>175 V</td>
<td></td>
</tr>
<tr>
<td>0.3 Amp</td>
<td>0.25 Amp</td>
<td>0.25 Amp</td>
</tr>
<tr>
<td>Adjustable</td>
<td>Adjustable</td>
<td></td>
</tr>
</tbody>
</table>

Example: Switch selection 21 is 1 SPST with terminal strip with switch specifications 10VA, 100V, 0.5Amp.

### Ordering code sequence

Contact factory for special execution.
### DIAPHRAGM Specifications

**Accuracy**  
±2% of the FSD (Ascending)

**Migration**  
No migration. Zero leakage from high to low port

**Range**  
0-100 to 0-600 mm H₂O or equivalent range in other units

**First marking on the scale**  
15% of the FSD

**Sensing element**  
Diaphragm

**Wetted parts**  
Diaphragm, body material, SS 302 spring & ceramic magnet

**Case material & dial size**  
Stainless steel (SS 304): 2.5", 3.5", 4", 4.5", 6.0"  
Engineering polymer: 2.5", 4.5", 6.0"

**Mounting**  
As per the explosion proof box drawings

**Maximum working pressure**  
35 bar / 500 psi.

**Maximum process temperature**  
0 to 80°C (32 to 175°F)

**Body material**  
Aluminum, Brass & SS 316

**Diaphragm**  
Buna-N, Viton, EPDM

**Window**  
Float glass (Std.), toughened glass, acrylic & safety glass.

**Connection**  
1/4" NPT(F) (Std.), 1/4" BSP(F) through adaptor

**Porting**  
Bottom (right side), back

**Over range protection**  
Up to the max. working pressure from high side

**Protection for gauge & switch**  
IP 65 / NEMA-4

**Options**  
Switches (Adjustable in 40-100% of FSD)

- Liquid filling (glycerine/ silicone)  
- Red follower pointer
- Customer logo
- Dual scale
- Color band
- Filter mesh in (+) connection
- Descending calibration

### COMBINATIONS

- Gauge + switch (with a terminal strip inside)
- Switch
- Gauge + switch (Without Ex-proof enclosure)
- Switch* (Without Ex-proof enclosure)

*Locally available explosion proof enclosures can be used

### Enclosure Approvals

- Available in engineering polymer (EP) Case
  - Removable glass
  - Strong and durable
  - Panel mounting possible
  - Condensation can be cleaned
  - Light weight

### MOUNTING BRACKETS

- Horizontal pipe mounting
- Vertical pipe mounting
- Surface mounting

---

**EX 400DGC**

ΔP Range: 0 to 100 upto 600 mm H₂O  
0 to 4 upto 25 inch H₂O

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**ASSEMBLY**

---

**Ambit Instruments Pty Ltd.**

42 Titan Drive, Carrum Downs
Victoria 3201, Australia
Phone: +61 3 9776 8888
Fax: +61 3 9776 8656
Email: contact@ambitinst.com.au
Website: www.ambitinst.com.au
### SELECT MODEL

<table>
<thead>
<tr>
<th>1 Series</th>
<th>EX 400DGC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Type</td>
<td>GS Gauge + Switch S Switch</td>
</tr>
<tr>
<td>3 Body material</td>
<td>A Aluminum B Brass</td>
</tr>
<tr>
<td>4 Dial size</td>
<td>2.5&quot; (63 mm) 4.5&quot; (115 mm) 6.0&quot; (150 mm)</td>
</tr>
<tr>
<td>5 Connection</td>
<td>4N 1/4&quot; NPT (F) (Std.) 4B 1/4&quot; BSP (F) ZZ Special connection sizes using adaptor</td>
</tr>
<tr>
<td>6 Porting</td>
<td>3 Bottom (Right side) 2 Back</td>
</tr>
<tr>
<td>7 Case</td>
<td>S4 SS 304 (Std.) S6 SS 316 F4 SS 304 flange EP Engineering polymer (available in 2.5&quot;, 4.5&quot;, 6&quot; only)</td>
</tr>
<tr>
<td>8 Window</td>
<td>F Glass (Std.) A Acrylic T Toughened glass L Safety glass</td>
</tr>
<tr>
<td>9 Seals/Diaphragm</td>
<td>B Buna-N (Std.) E EPDM V Viton</td>
</tr>
<tr>
<td>10 Switch</td>
<td>Select option &amp; Specifications</td>
</tr>
</tbody>
</table>

#### Advantages:
- Instrument automatically resets after line surges and cold start. This eliminates balancing of differential pressure instrument after such events.

#### Notes:
- Both enclosures have provision for surface mounting.
- For SS 316 case, please contact factory (MOQ applies).
- Liquid filling + Follower pointer available.
- Switch adjustment range between 40-100% of full scale deflection (FSD). For specific details, please contact factory.
- Minimum Order Quantity (MOQ) applies for 6.0" (150mm) dial.
- For electrical connection details, please refer to the datasheet.
- Mounting bracket: Aluminum (Standard); SS (Optional)

### Ordering code sequence

#### Standard ranges

<table>
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<tr>
<th>mm H2O</th>
<th>-</th>
<th>100</th>
<th>125</th>
<th>250</th>
<th>600</th>
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<tbody>
<tr>
<td>in. H2O</td>
<td>-</td>
<td>4</td>
<td>5</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>mbar</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>25</td>
<td>60</td>
</tr>
<tr>
<td>kPa</td>
<td>-</td>
<td>-</td>
<td>1.25</td>
<td>2.5</td>
<td>6</td>
</tr>
</tbody>
</table>

#### 12 Options
- 0 None
- A Glycerine *
- B Red follower pointer on acrylic window *
- C Customer Logo
- D Dual scale
- E Colour band
- F Filter mesh in (+) connection
- H Descending calibration (long delivery time)
- N NACE
- S Silicone oil*
- I Oxygen service (Contact factory)
- M1 2" horizontal pipe mounting bracket
- M3 2" vertical pipe mounting bracket

* Affects accuracy

** S3-316 **

Contact factory for special execution.
# STANDARD DIMENSIONS

**(Model 200 DPG)**

![Diagram](image)

<table>
<thead>
<tr>
<th>DIAL Ø</th>
<th>F</th>
<th>a</th>
<th>b</th>
<th>d</th>
<th>ch</th>
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</thead>
<tbody>
<tr>
<td>80 (3.5&quot;)</td>
<td>1/4&quot; BSP - 1/4&quot; NPT</td>
<td>19</td>
<td>44</td>
<td>83.0</td>
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<td>44</td>
<td>104.3</td>
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STANDARD DIMENSIONS
(Model 200 DGR)

3/4"NPT FOR CONDUIT
AT TWO PLACES

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</table>
STANDARD DIMENSIONS (Model 300 DGC)

### DIAL Ø

<table>
<thead>
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3/4"NPT FOR CONDUIT AT TWO PLACES
MOUNTING COMBINATIONS

SURFACE MOUNTING

HORIZONTAL PIPE MOUNTING

VERTICAL PIPE MOUNTING