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|  <b>TI3270en</b> | <b>Product Information</b>                              |  |
| <b>PDE2- Series (PG)</b>  | <b>Air Differential Pressure Gauge<br/>display only</b> |   |

The PDE2- Series (PG) is designed to measure and indicates pressure or differential pressure in HVAC systems with non-flammable gases and non-aggressive gases

The main applications are monitoring of fans and filters in HVAC systems

The PDE2- Serie can indicates positive, negative or differential pressures

The devices are for displaying the difference pressure only and have no output



|            |  |
|------------|--|
| <b>USE</b> | <p>Large, easy to read display</p> <p>Indicates positive, negative and differential pressure</p> <p>Indicates pressure in fan- and filter differential pressure applications or pressure in rooms</p> <p>Wide selection of pressure ranges available</p> <p>Designed for panel mounting</p> <p>Suitable for laboratory application</p> |
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|-----------------|--|
| <b>Features</b> | <p>Large and clear display</p> <p>Long-term stability of the measuring elements</p> <p>Professional and practical product design, withstands rough environmental conditions</p> <p>Easy to use, install and maintain</p> |
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| <b>Product Range</b> | <table border="1"> <thead> <tr> <th>Order Code</th> <th>Measuring Range</th> <th>Accuracy</th> <th>max. over pressure</th> <th>Position Dependency</th> <th>Max. Overpressure</th> <th>Connection tube (inner diameter)</th> </tr> </thead> <tbody> <tr> <td>PDE2.LD</td> <td>0...60Pa</td> <td>±4% of Full Scale Value</td> <td>100kPa</td> <td>only vertical mounting*</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.MD</td> <td>0...100Pa</td> <td>±3% of Full Scale Value</td> <td>100kPa</td> <td>only vertical mounting*</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.OD</td> <td>0...250Pa</td> <td>±3% of Full Scale Value</td> <td>100kPa</td> <td>independent</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.PD</td> <td>0...500Pa</td> <td>±3% of Full Scale Value</td> <td>100kPa</td> <td>independent</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.QD</td> <td>0...1000Pa</td> <td>±2% of Full Scale Value</td> <td>100kPa</td> <td>independent</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.RD</td> <td>-30...30Pa</td> <td>±4% of Full Scale Value</td> <td>100kPa</td> <td>only vertical mounting*</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.SD</td> <td>-60...60Pa</td> <td>±4% of Full Scale Value</td> <td>100kPa</td> <td>only vertical mounting*</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.TD</td> <td>-120...120Pa</td> <td>±3% of Full Scale Value</td> <td>100kPa</td> <td>independent</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.UD</td> <td>-250...250Pa</td> <td>±3% of Full Scale Value</td> <td>100kPa</td> <td>independent</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> <tr> <td>PDE2.VD</td> <td>-500...500Pa</td> <td>±2% of Full Scale Value</td> <td>100kPa</td> <td>independent</td> <td>Max. 10kPa</td> <td>ø5mm</td> </tr> </tbody> </table> | Order Code              | Measuring Range    | Accuracy                | max. over pressure | Position Dependency              | Max. Overpressure | Connection tube (inner diameter) | PDE2.LD | 0...60Pa | ±4% of Full Scale Value | 100kPa | only vertical mounting* | Max. 10kPa | ø5mm | PDE2.MD | 0...100Pa | ±3% of Full Scale Value | 100kPa | only vertical mounting* | Max. 10kPa | ø5mm | PDE2.OD | 0...250Pa | ±3% of Full Scale Value | 100kPa | independent | Max. 10kPa | ø5mm | PDE2.PD | 0...500Pa | ±3% of Full Scale Value | 100kPa | independent | Max. 10kPa | ø5mm | PDE2.QD | 0...1000Pa | ±2% of Full Scale Value | 100kPa | independent | Max. 10kPa | ø5mm | PDE2.RD | -30...30Pa | ±4% of Full Scale Value | 100kPa | only vertical mounting* | Max. 10kPa | ø5mm | PDE2.SD | -60...60Pa | ±4% of Full Scale Value | 100kPa | only vertical mounting* | Max. 10kPa | ø5mm | PDE2.TD | -120...120Pa | ±3% of Full Scale Value | 100kPa | independent | Max. 10kPa | ø5mm | PDE2.UD | -250...250Pa | ±3% of Full Scale Value | 100kPa | independent | Max. 10kPa | ø5mm | PDE2.VD | -500...500Pa | ±2% of Full Scale Value | 100kPa | independent | Max. 10kPa | ø5mm |
|----------------------|--|-------------------------|--------------------|-------------------------|--------------------|----------------------------------|-------------------|----------------------------------|---------|----------|-------------------------|--------|-------------------------|------------|------|---------|-----------|-------------------------|--------|-------------------------|------------|------|---------|-----------|-------------------------|--------|-------------|------------|------|---------|-----------|-------------------------|--------|-------------|------------|------|---------|------------|-------------------------|--------|-------------|------------|------|---------|------------|-------------------------|--------|-------------------------|------------|------|---------|------------|-------------------------|--------|-------------------------|------------|------|---------|--------------|-------------------------|--------|-------------|------------|------|---------|--------------|-------------------------|--------|-------------|------------|------|---------|--------------|-------------------------|--------|-------------|------------|------|
| Order Code           | Measuring Range  | Accuracy                | max. over pressure | Position Dependency     | Max. Overpressure  | Connection tube (inner diameter) |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.LD              | 0...60Pa   | ±4% of Full Scale Value | 100kPa             | only vertical mounting* | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.MD              | 0...100Pa  | ±3% of Full Scale Value | 100kPa             | only vertical mounting* | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.OD              | 0...250Pa  | ±3% of Full Scale Value | 100kPa             | independent             | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.PD              | 0...500Pa  | ±3% of Full Scale Value | 100kPa             | independent             | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.QD              | 0...1000Pa   | ±2% of Full Scale Value | 100kPa             | independent             | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.RD              | -30...30Pa   | ±4% of Full Scale Value | 100kPa             | only vertical mounting* | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.SD              | -60...60Pa   | ±4% of Full Scale Value | 100kPa             | only vertical mounting* | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.TD              | -120...120Pa   | ±3% of Full Scale Value | 100kPa             | independent             | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.UD              | -250...250Pa   | ±3% of Full Scale Value | 100kPa             | independent             | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |
| PDE2.VD              | -500...500Pa   | ±2% of Full Scale Value | 100kPa             | independent             | Max. 10kPa         | ø5mm                             |                   |                                  |         |          |                         |        |                         |            |      |         |           |                         |        |                         |            |      |         |           |                         |        |             |            |      |         |           |                         |        |             |            |      |         |            |                         |        |             |            |      |         |            |                         |        |                         |            |      |         |            |                         |        |                         |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |         |              |                         |        |             |            |      |

|                              |                              |                                    |                             |
|------------------------------|------------------------------|------------------------------------|-----------------------------|
| <b>Sensor Specification</b>  | Sensor Specification         | Measured                           | Air Differential Pressure   |
|                              |                              | Sensor Characteristics             | n.a.                        |
|                              |                              | Sensor Output                      | n.a.                        |
|                              |                              | Measuring Range                    | See Product Range, Page 1   |
|                              |                              | Accuracy                           | See Product Range, Page 1   |
|                              |                              | Max. Overpressure                  | 1.7bar (relief plug opens)  |
| <b>Technical Information</b> | Mechanical Information       | Connection Nozzle                  | Ø3.2 female NPTm, L=10mm    |
|                              |                              | Sensing Element Position           | Internal                    |
|                              | User Interface               | Analog display                     | Needle type                 |
|                              | Color and Material           | Housing                            | Die Cast, grey              |
|                              |                              | Display Cover                      | Acryl, transparant          |
|                              |                              | Diaphragm                          | Silicone, emission free     |
|                              | Environmental Condition      | Operation Temperature              | -7°C...+60°C                |
|                              |                              | Operation Humidity                 | <85% r.h., no condensation  |
|                              |                              | Transport Temperature              | -10°C...+60°C               |
|                              |                              | Transport Humidity                 | < 90% r.h.                  |
|                              |                              | Storage Temperature                | -10°C...+60°C               |
|                              |                              | Storage Humidity                   | < 85% r.h., no condensation |
|                              | Norms and Directives         | IP- Rating                         | IP54 according to IEC60529  |
|                              |                              | Safety Class                       | III to EN 60 730            |
|                              |                              | Product Standard 1                 | n.a.                        |
|                              |                              | Product Standard 2                 | n.a.                        |
|                              |                              | CE Conformities                    | n.a.                        |
|                              |                              | Emitted Interference               | n.a.                        |
|                              |                              | Interference Resistance            | n.a.                        |
|                              |                              | Transport to Climatic Condition    | IEC 60721-3-2               |
|                              |                              | Transport Mechanical Condition     | IEC 60721-3-2 to class 2M2  |
|                              | Storage Climatic Condition   | IEC 60721-3-1                      |                             |
|                              | Storage Mechanical Condition | IEC 60721-3-1 to class 2M2         |                             |
| <b>Miscellaneous</b>         | Accessories                  | Mounting Kit, Included in delivery | 2 connection nozzels        |
|                              | Shipping & Handling          | Packaging Material                 | Rigid Cardboards            |
|                              | Order Notes                  | Order Code                         | e.g. PDE2.LD                |

### Installation Notes

Observe the following general regulation for engineering and implementation:



All relevant national regulation

Other country specific regulations

Country-specific regulations

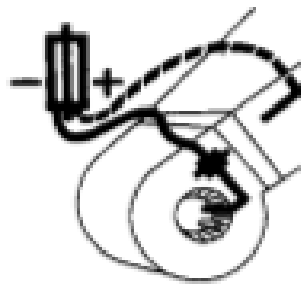
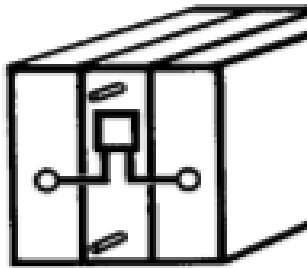
Schematics, cable listings, dispositions, specification and arrangements

from the customer or engineering office in charge

Third party specifications, e.g. general contractors or constructors

### Advices

#### Mounting Advices



#### Disposal Notes

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.



The device may not be disposed as domestic garbage.

The device must be disposed through channels provided for this purpose.

It is mandatory to complying with local currently applying laws and regulations.

### Dimensional Drawing

