AccuP

Transmitter for pressure, absolute pressure and differential pressure
Technical description

ACCU P pressure transmitters are digital pressure transmitters featuring extensive user-friendliness and high accuracy. The parameterization is performed using control keys or via HART communication.

Extensive functionality enables the pressure transmitter to be precisely adapted to the plant’s requirements. Operation is very simple in spite of the numerous setting options.

**Pressure transmitter for gauge pressure**

Measured variable: Gauge pressure of aggressive and non-aggressive gases, vapors and liquids.

**Span (infinitely adjustable)**

for DS III HART: 0.01 bar to 700 bar (0.15 psi to 10153 psi)

**Pressure transmitters for differential pressure and flow**

Measured variables:

- Differential pressure
- Small positive or negative pressure
- Flow \( q \sim \sqrt{\Delta p} \) (together with a primary differential pressure device (see chapter "Flow Meters"))

**Span (infinitely adjustable)**

for DS III HART: 1 mbar ... 30 bar (0.0145 ... 435 psi)
### Pressure Transmitter for gauge pressure

**Input**
- Measured variable gauge pressure
- Spans (infinitely adjustable) or nominal measuring range and

<table>
<thead>
<tr>
<th>HART</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge pressure</td>
<td>Max. perm. test pressure</td>
</tr>
<tr>
<td>Span</td>
<td></td>
</tr>
<tr>
<td>0,01...1 bar g (0,15...14.5 psi g)</td>
<td>6 bar g (87 psi g)</td>
</tr>
<tr>
<td>0,04...4 bar g (0.58...58 psi g)</td>
<td>10 bar g (145 psi g)</td>
</tr>
<tr>
<td>0,16...16 bar g (2.32...232 psi g)</td>
<td>32 bar g (464 psi g)</td>
</tr>
<tr>
<td>0,6...63 bar g (9.14...914 psi g)</td>
<td>100 bar g (1450 psi g)</td>
</tr>
<tr>
<td>1,6...160 bar g (23,2...2320 psi g)</td>
<td>250 bar g (3626 psi g)</td>
</tr>
<tr>
<td>4,0...400 bar g (58...5802 psi g)</td>
<td>600 bar g (8700 psi g)</td>
</tr>
<tr>
<td>7,0...700 bar g (102...10153 psi g)</td>
<td>800 bar g (11603 psi g)</td>
</tr>
</tbody>
</table>

**Output**
- Output signal
- 4...20 mA

**Measuring accuracy**

- **Acc. To EN 60770-1**
- Increasing characteristic, start-of-scale value 0 bar, stainless steel seal diaphragm, silicone oil filling
- Increasing, room temperature 25°C (77°F) r: Span ratio (r=max span / set span),

PR-AccuP-en-1442
Error in measurement and fixed-point setting (including hysteresis and repeatability)

- Linear characteristic
  \[ r \leq 10 \]
  \[ 10 < r \leq 30 \]
  \[ 30 < r \leq 100 \]

Long-term drift (temperature change ±30 °C (±54 °F))

\[ \leq (0,007 \cdot r + 0,071) \% \]

Influence of ambient temperature

- at -10....+60°C (14.... 140 °F)

\[ \leq (0,08 \cdot r + 0,1) \% \]

(at 700 bar: \( \leq (0,1 \cdot r + 0,2) \% \))

- at -40....-10°C und +60....+85°C
  (-40...+14°F und 140....185 °F)

\[ \leq (0,1 \cdot r + 0,15) \%/10 K \]

Measured Value Resolution

**Rated conditions**
Degree of protection (to EN 60529)

- IP65

**Design**

- Weight (without options)
  \( \approx 1,5 \text{ kg} (= 3.3 \text{ lb}) \)

**Power supply U_H**
Terminal voltage on transmitter

- DC 10,5....45V

**For gauge pressure**
Selection and Ordering data
Pressure transmitter for gauge pressure

<table>
<thead>
<tr>
<th>Measuring cell filling</th>
<th>Measuring cell cleaning</th>
<th>Order code</th>
<th>Var-ACCU</th>
<th>0</th>
<th>3</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone oil</td>
<td>normal</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inert liquid (^1)</td>
<td>Grease-free</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Nominal measuring range

- 0.01...1 bar g
  - (0.15...14.5 psi g)
- 0.04...4 bar g
  - (0.58...58 psi g)
- 0.16...16 bar g
  - (2.32...232 psi g)
- 0.63...63 bar g
  - (9.14...814 psi g)
- 1.6...160 bar g
  - (23.2...2320 psi g)
- 4.0...400 bar g
  - (58.0...5802 psi g)
- 7.0...700 bar g
  - (102.0...10153 psi g)
**Wetted parts materials**

<table>
<thead>
<tr>
<th>Seal diaphragm materials</th>
<th>Process connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Hastelloy</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Hastelloy</td>
<td>Hastelloy</td>
</tr>
<tr>
<td>Version as diaphragm seal⁽¹⁾ ³⁾</td>
<td></td>
</tr>
</tbody>
</table>

**Process connection**

- Connection shank G1/2B to EN 837-1
- Female thread 1/2 - 14 NPT
- Stainless steel oval flange
  - Mounting thread 6/16-20UNF to EN 61518
  - Mounting thread M10 to Din 19213
  - Mounting thread M12 to Din 19213
- Male thread M20 x 1.5
- Male thread 1/2 - 14NPT

**Version**

- Standard Version
- International version, English label inscriptions, documentation in 5 languages on CD

**Selection and Ordering data**

Pressure transmitter for gauge pressure

- Screwed gland M20x1.5
- Screwed gland ½-14NPT
- M12 connectors (metal)⁽⁸⁾

**Display**

- Without display
- Without visible digital indicator (digital indicator concealed, setting: bar)
- With visible digital indicator
- With customer-specific digital indicator (setting as specified, Order Code “Y21” required)

1) For oxygen application, add Order code E10.
2) When the manufacturer’s certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.
3) If the acceptance test certificate 3.1. is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.
4) Without cable gland, with blanking plug.
5) With enclosed cable gland EEx ia and blanking plug.  
6) M12 delivered without cable socket

**Further designs**
Add „Z“ to order No. and specify Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure transmitter with mounting bracket made of</td>
<td>A01, A02</td>
</tr>
<tr>
<td>• steel</td>
<td></td>
</tr>
<tr>
<td>• stainless steel</td>
<td></td>
</tr>
<tr>
<td>plug</td>
<td>A30, A31</td>
</tr>
<tr>
<td>• Han 7D (metal, gray)</td>
<td></td>
</tr>
<tr>
<td>• Han 8U (instead Han 7D)</td>
<td></td>
</tr>
<tr>
<td>Cable sockets for M12 connectors (metal)</td>
<td>A50</td>
</tr>
<tr>
<td>Rating plate inscription (instead of German)</td>
<td>B11, B12, B13, B14</td>
</tr>
<tr>
<td>• English</td>
<td></td>
</tr>
<tr>
<td>• French</td>
<td></td>
</tr>
<tr>
<td>• Spanish</td>
<td></td>
</tr>
<tr>
<td>• Italian</td>
<td></td>
</tr>
<tr>
<td>English rating plate</td>
<td>B21</td>
</tr>
<tr>
<td>Pressure units in H₂O and/or psi</td>
<td></td>
</tr>
<tr>
<td>Quality inspection certificate (factoring calibration) to IEC 60770-02</td>
<td>C11</td>
</tr>
<tr>
<td>Inspection certificate</td>
<td>C12</td>
</tr>
<tr>
<td>Acc. to EN 10204-3.1</td>
<td></td>
</tr>
<tr>
<td>Factoring certificate</td>
<td>C14</td>
</tr>
<tr>
<td>Acc. to EN 10204-2.2</td>
<td></td>
</tr>
<tr>
<td>Setting of upper limit of output signal to 22.0mA</td>
<td>D05</td>
</tr>
<tr>
<td>Add „Z“ to order No. and specify Order Code</td>
<td></td>
</tr>
<tr>
<td>Degree of protection IP68</td>
<td>D12</td>
</tr>
<tr>
<td>(only for M20x1,5 and 1/2-14 NPT)</td>
<td></td>
</tr>
<tr>
<td>Digital indicator alongside the input keys</td>
<td>D27</td>
</tr>
<tr>
<td>(only together with the devices 7MF4033-.0-.A.6 or -.A.7-Z, Y21 or Y22 + Y01)</td>
<td></td>
</tr>
<tr>
<td>Supplied with oval flange</td>
<td>D37</td>
</tr>
<tr>
<td>(1 item), PTFE-packing und screws in thread of oval flange</td>
<td></td>
</tr>
<tr>
<td>Oxygen application</td>
<td>E10</td>
</tr>
<tr>
<td>(In the case of oxygen measurement and inert</td>
<td></td>
</tr>
</tbody>
</table>
liquid max 120 bar G (1740 psi G) at 60° (140°F))

Measuring range to be set
Specify in plain text (max. 5 characters):
Y01: ... up to ... mbar, bar, kPa, MPa, psi

Stainless steel tag plate (measuring point description)
max. 16 characters specify in plain text:
Y15................

Additional data
Please add „Z“ to Order No. and specify Order code(s) and plain text

Measuring point text
(max. 27 characters) specify in plain text: Y16:
......

Entry of HART address (TAG)
max. 8 characters specify in plain text: Y17......

Setting of pressure indication in pressure units
Specify in plain text (standard setting: bar):
Y21: mbar, bar, kPa, MPa, psi, ...
Note:
The following pressure units can be selected:
bar, mbar, mm H₂O⁎, in H₂O⁎, ftH₂O⁎,
mmHG,
In HG, psi, Pa, kPa, MPa, g/cm², kg/cm², Torr,
ATM or % *) ref. temperature 20 °C

Setting of pressure indication in
Non-pressure units ³)
Specify in plain text:
Y22:... up to ... l/min, m³/h, m, USgpm, ...
(Specification of measuring range in pressure units „Y01“ is essential, unit with max 5 characters)

Only "Y01", "Y21", "Y22" and "D05" can be factory preset.

Ordering example
Item line: 7MF4033-1EA00-1AA7-Z
B line: A01 + Y01 + Y21
C line: Y01: 10 ... 20 bar (145 ... 290 psi)
C line: Y21: bar (psi)

1) When the manufacturer’s certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.
2) If the acceptance test certificate 3.1. is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.
3) Preset values can only be changed over SIMATIC PDM.

Dimensional drawings

![Dimensional drawings](image)

AccuMU pressure transmitters for gauge pressure, dimensions in mm (inch)

<table>
<thead>
<tr>
<th>Input</th>
<th>Measured variable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Differential pressure and flow</td>
</tr>
</tbody>
</table>

AccuP
### Spans (infinitely adjustable) or Nominal measuring range and max. permissible operating pressure

<table>
<thead>
<tr>
<th>Span</th>
<th>Maximum operating pressure</th>
</tr>
</thead>
</table>
| 1 ... 20 mbar
0.4 ... 8 in H₂O | 32 bar (464 psi) |
| 1 ... 60 mbar
(0.4 ... 24 in H₂O)
2.5 ... 250 mär
(1 ... 100 in H₂O)
6 ... 600 mbar
(2.4 ... 240 in H₂O)
16 ... 1600 mbar
(6.4 ... 642 in H₂O)
50 ... 5000 mbar
(20 ... 2000 in H₂O)
0.3 ... 30 bar
(4.35 ... 435 psi) | 160 bar (2320 psi) |
| 2.5 ... 250 mbar
(1 ... 100 in H₂O)
6 ... 600 mbar
(2.4 ... 240 in H₂O)
16 ... 1600 mbar
(6.4 ... 642 in H₂O)
50 ... 5000 mbar
(20 ... 2000 in H₂O)
0.3 ... 30 bar
(4.35 ... 435 psi) | 420 bar (6091 psi) |

#### Output

| Output signal | 4...20 mA |

### Measuring accuracy

**Reference conditions**
(All error data always refers to the set span)

**Increasing characteristic, start-of-scale value 0 bar, stainless steel seal diaphragm, silicone oil filling, room temperature 25 (77°F)) r: Span ratio (r= max. span/set span)**

#### Error in measurement and fixed-point setting (including hysteresis and repeatability)

- **Linear characteristic**
  - r ≤ 10
  - 10 < r ≤ 30
  - 30 < r ≤ 100

- **Square-rooted characteristic (flow > 50%)**
  - r ≤ 10
  - 10 < r ≤ 30

- **Square-rooted characteristic (flow 25...50%)**
  - r ≤ 10
  - 10 < r ≤ 30

- **Acc. to EN 60770-1**

<table>
<thead>
<tr>
<th>Range</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ (0,0029 · r + 0,071)</td>
<td>%</td>
</tr>
<tr>
<td>≤ (0,0045 · r + 0,071)</td>
<td>%</td>
</tr>
<tr>
<td>≤ (0,005 · r + 0,05)</td>
<td>%</td>
</tr>
<tr>
<td>≤ 0,1</td>
<td>%</td>
</tr>
<tr>
<td>≤ 0,2</td>
<td>%</td>
</tr>
</tbody>
</table>
Long-term drift (temperature change ± 30°C (± 54 °F))
- 20-mbar (0.29 psi)-measuring cell

| Influence of static pressure | | |
|-------------------------------|-------------------------------|
| at -10...+60 °C (14... 140 °F) | ≤ (0.008 · r + 0.1) % |
| at -40...-10 °C and +60...+85°C (-40...+ 14°F and 140...185 °F) | ≤ (0.1 · r + 0.15) %/10 K |
| (Twice the value with 20-mbar (0.29 psi) measuring cell) | |

Influence of static pressure
- on the zero point (PKN)
- 20-mbar (0.29 psi)-measuring cell
- on the span (PKS)
- 20-mbar (0.29 psi)-measuring

Measured Value Resolution

<table>
<thead>
<tr>
<th>Measuring cell filling</th>
<th>Measuring cell cleaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone oil</td>
<td>normal</td>
</tr>
<tr>
<td>Inert liquid¹</td>
<td>Grease-free</td>
</tr>
</tbody>
</table>

Rated conditions
Degree of protection (to EN 60529) IP65
Weight (without options) 4,5 kg (= 9.9 Ib)

<table>
<thead>
<tr>
<th>Power supply U_H</th>
<th>Terminal voltage on transmitter</th>
</tr>
</thead>
<tbody>
<tr>
<td>= 4,5 kg (= 9.9 Ib)</td>
<td>DC 10,5 ... 45 V</td>
</tr>
</tbody>
</table>

Selection and Ordering data
Pressure transmitter for gauge and absolute pressure, front flush diaphragm AccuMU

<table>
<thead>
<tr>
<th>Order-No.</th>
<th>Var-ACCU 4 3 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring cell filling</td>
<td>Measuring cell cleaning</td>
</tr>
<tr>
<td>Silicone oil</td>
<td>normal &gt; 1</td>
</tr>
<tr>
<td>Inert liquid¹</td>
<td>Grease-free 3</td>
</tr>
</tbody>
</table>

Measuring span
PN32 (MWP 464 psi)
1 ... 20 mbar ²) (0.4015 ... 24.09 in H₂O) > B

PN 160 (MWP 2320 psi)
1 ... 60 mbar (0.4015 ... 24.09 inH₂O) > C
2,5 ... 250 mbar (1.004 ... 100.4 inH₂O) > D
6 ... 600 mbar (2.409 ... 240.9 inH₂O) > E
16 ...1600 mbar (6.424 ... 642.4 inH₂O) > F
50 ...5000 mbar (20.08 ... 2008 inH₂O) > G
0,3 ...30 mbar (4.35 ... 435 psi) > H

Wetted parts materials
(stainless steel process flanges)

<table>
<thead>
<tr>
<th>Seal diaphragm</th>
<th>Parts of measuring cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless steel</td>
<td>Stainless steel &gt; A</td>
</tr>
<tr>
<td>Hastelloy</td>
<td>Stainless steel B</td>
</tr>
<tr>
<td>Hastelloy</td>
<td>Hastelloy C</td>
</tr>
<tr>
<td>Tantalum ³)</td>
<td>Tantalum E</td>
</tr>
<tr>
<td>Monel ³)</td>
<td>Monel H</td>
</tr>
</tbody>
</table>
Gold ³⁾ for diaphragm seal ⁴⁾ ⁵⁾

**Process connection**
- Female 1/4- 18 NPT with flange connection
- Sealing screw opposite process connection
  - Mounting thread 7/16-20 UNF to
    - EN 61518
  - Mounting thread M10 to DIN 19213
    (only for replacement requirement)
- Vent on side of process flange ²⁾
  - Mounting thread 7/16-20 UNF to
    - EN 61518
  - Mounting thread M10 to DIN 19213
    (only for replacement requirement)

**Selection and Ordering data**

<table>
<thead>
<tr>
<th>Pressure AccuMU for differential pressure and flow, Non-wetted parts</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process flange screws</td>
<td>Var-ACCU 4 3 3</td>
</tr>
<tr>
<td>Stainless steel</td>
<td></td>
</tr>
<tr>
<td>Die-cast aluminum</td>
<td>2</td>
</tr>
<tr>
<td>Stainless steel</td>
<td></td>
</tr>
<tr>
<td>Stainless steel precision casting ⁶⁾</td>
<td>3</td>
</tr>
</tbody>
</table>

**Version**
- Standard versions 1
- International versions, English label inscriptions, documentation in 5 languages on CD 2

**Electrical connection /cable entry**
- Screwed gland Pg 13,5 ⁹⁾ A
- Screwed gland M20x1,5 B
- Screwed gland 1/2 -14 NPT C
- Han 7D plug (plastic housing) incl. mating connector ⁹⁾¹⁰) D
- M12 connectors (metal) ¹¹⁾ F

**Display**
- without indicator 0
- without visible digital indicator (digital indicator concealed, setting: mA 1
- with visible digital indication, setting: mA 6
- with customer-specific digital indication (setting as specified, Order Code „Y21“ or „Y22“ required) 7

1) Not with temperature decouple P00 and P10, not for process connections R01, R02, R04, R10 and R11, and can only be ordered in conjunction with silicone oil.
2) Only possible for flange with M.., N.. and Q.. option.
3) Without cable gland, with blanking plug
4) With enclosed cable gland Ex ia and blanking plug
5) Not in conjunction with types of protection "Explosion-proof" and "Ex nA",
"Intrinsic safety" and "Explosion-proof".
6) M12 delivered without cable socket
F) Subject to export regulations AL: 9I999, ECCN: N.
### Further designs

Add "Z" to Order No. and specify Order Code

#### Pressure transmitter with mounting bracket

(2 shackles, 4 nuts, 4 U-plates, 1 angle made) of:
- Steel A01
- Stainless steel A02

#### O-rings for process flanges

(instead of FPM (Viton))
- PTFE (Teflon) A20
- FEP (with silicone core, approved for food) A21
- FFPM (Kalrez, Compound 4079) A22
- NBR (Buna N) A23

#### Plug

- Han 7D (metal, gray) A30
- Han 8U (instead of Han 7D ) A31

#### Sealing screws

¾-18 NPT, with valve in mat. of process

#### Cable sockets for M12 connectors (metal)

#### Rating plate inscription

(instead of German)
- English B11
- French B12
- Spanish B13
- Italian B14

#### English rating plate

Pressure units in H₂O and/or psi

#### Quality inspection certificate (factory calibration)

to IEC 60770-02

#### Inspection certificate Acc. to EN 10204-3.1

#### Factory certificate Acc. to EN 10204-2.2

#### Degree of protection IP68

(only for M20x1,5 and ½-¾ NPT)

#### Digital indicator alongside the input keys

(only together with the devices 7MF4033-....0-.A.6 or -A.7-Z, Y21 or Y22 + Y01)

#### Process flange screws made of Monel

(max. nominal pressure PN20)

#### Supplied with oval flange set

(2 items), PTFE packing and screws in thread of oval flange

### Further designs
Add „Z“ to Order No. and specify Order Code

**Oxygen application**
(In the case of oxygen measurement and inert liquid max. 120 bar a (1740 psi) at 60°C (140°F))

**Interchanging of process connection side**

**Vent on side for gas measurements**

**Stainless steel process flanges for vertical differential pressure lines**
(not together with K01, K02 und K04) ³)

**Process flange**
- Hastelloy
- Monel
- Stainless steel with PVDF insert max. PN10 (MWP 145 psi max. temperature of medium 90°C (194 °F))

For ½-14 NPT inner process connection on the side in the middle of the process flanges, vent valve not possible

1) When the manufacturer’s certificate (calibration certificate) has to be ordered for transmitters with diaphragm seals according to IEC 60770-2, it is recommended only to order this certificate exclusively with the diaphragm seals. The measuring accuracy of the total combination is certified here.

2) If the acceptance test certificate 3.1. is ordered for the transmitter with mounted diaphragm seals this certificate must also be ordered with the respective remote seals.

³) Not suitable for connection of remote seal

**Additional data**
Please add „Z“ to Order No. and specify Order code(s) and plain text.

**Measuring range to be set**
Specify in plain text
- In the case of linear characteristic curve (max. 5 characters):
  - Y01: ... up to ...
- in the case of square rooted characteristic curve (max. 5 characters):
  - Y02: ... up to ...

**Stainless steel tag plate (measuring point description)**
max. 16 characters, specify in plain text.: Y15: ...

**Measuring point text**
max. 27 characters, specify in plain text: Y16: ..

**Entry of HART address (TAG)**
max. 8 characters, specify in plain text.: Y17
**Setting of pressure indicator in pressure units**

Specify in plain text (standard setting: bar): Y21: mbar, bar, kPa, MPa, psi, ...

Note: the following pressure units can be selected:
bar, mbar, mm H₂O*¹, in H₂O*¹, H₂O*¹, mHG, in HG, psi, Pa, kPa, MPa, g/cm², kg/cm², Torr,

ATM or %, *¹ ref. temperature 20°C

**Setting of pressure indicator in non-pressure units**²

Specify in plain text:
Y22: ... up to ... l/min, m³/h, m, Us gpm, ...

(specification of measuring range in pressure units "Y01" or "Y02" is essential, until with max. 5 characters)

Only "Y01", "Y21", "Y22", "Y25" and "D05" can be factory preset

³) Preset values can only be changed over SIMATIC PDM.

²) Not in conjunction with over-filling safety device for flammable and non flammable liquids (Order Code “E08”)
AccuMU pressure transmitters for differential pressure and flow, dimensions in mm (inch)

1. Process connection:
   - 1/4-14 NPT,
   - Connection shank G3/8 or
   - Oval flange
2. Blanking plug
3. Electrical connection:
   - Screwed gland Pg 13.5 (adapter\(^2\)\(^3\), only DS III HART,
   - Screwed gland M20x1.5\(^3\),
   - Screwed gland 3/4-14 NPT,
   - Han 7D/Han BD\(^3\) plug, only DS III HART, or
   - M12 connector
4. Terminal side
5. Electronic side, digital display (longer overall length for cover with window)
6. Protective cover over keys
7. Mounting bracket (option)
8. Screw cover - safety bracket (only for type of protection “Explosion-proof enclosure”, not shown in the drawing)

1) Allow approx. 20 mm (0.79 inch) thread length to permit unscrewing
2) Not with type of protection “Explosion-proof enclosure”
3) Not with type of protection “FM + CSA [as + xq]”
4) For Pg 13,5 with adapter approx. 45 mm (1.77 inch)
5) Minimum distance for rotating

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