PP55-CP55 Pressure Transmitters Platinum Series
Process and Cleanline

**FEATURES**
- All stainless steel design
- 0.1% accuracy of adjusted span (optional 0.075%)
- Strong flush mounted diaphragm
- Active temperature compensation
- Optional HART® protocol with 4-20 mA / 2 wire output or PROFIBUS® PA protocol
- Digital local graphic display with several options
- Easy local adjustments using 1 joystick
- HART DTM available for Microsoft Windows® OS
- Wide selection of electrical & process connections
- IP66/68 Ingress rating
- Approval for use in hazardous area

**TYPICAL USES**
- Food and beverage industry
- Pharma industry
- Pulp and paper
- Chemical and petrochemical plants

**PERFORMANCE SPECIFICATIONS**
- Reference Temperature: 21 °C ± 2 °C (70 °F ± 2 °F)
- Accuracy: ± 0.1 % of adjusted span
  - optional: ± 0.075 %
- Stability: ± 0.05 % of span / year
- Adjustable pressure span: 0.1 to 100 bar
  - Check table "Standard pressure range" on page 2
- Pressure Type: Gauge, Absolute Vacuum and Compound on request

**ENVIRONMENTAL SPECIFICATIONS**
- Thermal Coefficients: 0.15% / 10 K ((Tamb-Tref)/10) * 0.15%
  - 0.3% / 10 K for Tamb < 0 °C
- Temperature Limits: Check table "Temperature Limits" on page 2
- Humidity: 0-100 % R.H. (non-condensing)

**SOFTWARE SPECIFICATIONS**
- Driver and Software: Microsoft Windows® 7 or higher
- Interfaces: PACTware™
- Response Time (Output): 900 ms
- On-field Adjustment: Check table "On-field Adjustments" on page 2

**PHYSICAL SPECIFICATION**
- Pressure: Max. Overpressure: See on page 2
  - Proof: 75% of Max. Overpressure
- Process Connection: Check coding table "Process Connection" on page 3/4
- Weather Protection: Ingress Protection IP66 (optional IP68)
- Shock and Vibration Effects:
  - 4.0 - 13.2 Hz constant displacement-amplitude 1.0 mm
  - 13.2 - 100.0 Hz constant acceleration - 0.7 g
  - 1 Sweep up with 1 oct/min.

**WETTED COMPONENTS**
- Diaphragm: Stainless steel 316L (1.4404)
  - optional: St. st. 316L (1.4404) gold plated
  - optional: Hastelloy C-276 (2.4819)
- Flange: Stainless steel 316L (1.4404)
  - optional: Hastelloy C-276 (2.4819) inlay
  - optional: St. st. 316L (1.4404) Tantalum coated inlay

**NON-WETTED COMPONENTS**
- Housing: Stainless steel 304 (1.4401)
  - optional: Stainless steel 316 (1.4404)

**KEY BENEFITS**
- Intelligent transmitters with adjustable span and high accuracy
- Minimum temperature effect
- Several setting and adjustment options

**ELECTRICAL SPECIFICATIONS**
- Output: 4-20 mA (2-wire configuration)
  - PROFIBUS® - PA Slave Profile v3.02 Floating point
  - IEEE754
- Electrical Connection: M20x1.5
  - for more see "Ordering Code" on page 5
- Power Supply: Standard: 12 - 36 Vdc
  - 12 - 30 Vdc (ATEX)
  - HART®:
  - 17 - 36 Vdc
  - min. 250 Ω
  - 17 - 30 Vdc (ATEX)
  - min. 250 Ω
  - PROFIBUS® PA: 12 - 30 Vdc
- PROFIBUS® Transmission speed: 31.25 kbaud
  - Specification:
  - Consumption: 13 mA ± 1 mA
  - Fault current: 13 mA ± 1 mA
- Intrinsically safe (max. values):
  - U_{max} = 30 Vdc
  - I_{max} = 110 mA
  - P_{max} = 0.9 W (Linear source)
  - L_{max} = 0.08 mH
  - C_{max} = 41 nF

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.
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PP55-CP55 Pressure Transmitters Platinum Series
Process and Cleanline

### Standard Pressure Range

<table>
<thead>
<tr>
<th>RANGE</th>
<th>CODE</th>
<th>Adjustable Span Ranges</th>
<th>Max. Overpressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process transmitter</td>
<td>PP55</td>
<td>0 ... 1,2 bar</td>
<td>6.4 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 10 bar</td>
<td>0 ... 1 bar to 0 ... 10 bar</td>
<td>50 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 100 bar</td>
<td>0 ... 10 bar to 0 ... 100 bar</td>
<td>200 bar</td>
</tr>
<tr>
<td>Cleanline transmitter</td>
<td>CP55</td>
<td>0 ... 1,2 bar</td>
<td>6.4 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 10 bar</td>
<td>0 ... 1 bar to 0 ... 10 bar</td>
<td>50 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 100 bar</td>
<td>0 ... 10 bar to 0 ... 100 bar</td>
<td>200 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 1,2 bar</td>
<td>0 ... 0.1 bar to 0 ... 1.2 bar</td>
<td>10 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 10 bar</td>
<td>0 ... 0.5 bar to 0 ... 10 bar</td>
<td>50 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 100 bar</td>
<td>0 ... 5 bar to 0 ... 100 bar</td>
<td>200 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 1,2 bar</td>
<td>0 ... 0.05 bar to 0 ... 1.2 bar</td>
<td>10 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 10 bar</td>
<td>0 ... 0.5 bar to 0 ... 10 bar</td>
<td>50 bar</td>
</tr>
<tr>
<td></td>
<td>0 ... 100 bar</td>
<td>0 ... 5 bar to 0 ... 100 bar</td>
<td>200 bar</td>
</tr>
</tbody>
</table>

### Temperature Limits

| Ambient/Storage: | Standard | -20 °C to 70 °C (-4 °F to 158 °F) |
| ATEX T5-T1       | -20 °C to 70 °C (-4 °F to 158 °F) |
| ATEX T6          | -20 °C to 31 °C (-4 °F to 104 °F) |
| Process:         | -20 °C to 80 °C (-4 °F to 176 °F) |
| optional up to 100 °C (210 °F) |
| ATEX T5-T1       | -20 °C to 100 °C (-4 °F to 158 °F) |
| ATEX T6          | -20 °C to 50 °C (-4 °F to 212 °F) |

| Active Temp. compensation on process side: |
| PP55 | Standard: 0 °C to 80 °C (30 °F to 180 °F) | optional up to 100 °C (210 °F) |
| Low Temp option: -20 °C to +70 °C (-4 °F to 160 °F) |
| CP55 | Standard: 0 °C to 100 °C (30 °F to 210 °F) | Low Temp option: -20 °C to +70 °C (-4 °F to 160 °F) |
| High Temp option: 100 °C to 200 °C (210 °F to 390 °F) |
| Ultra-High Temp option: 150 °C to 280 °C (300 °F to 540 °F) |

### On-Field Adjustments

- Zero adjustment (4 mA)
- Span adjustment (20 mA)
- Cancel mounting position effect
- Switch pressure units & conversion table (volume and weight)
- Output current display
  - 4-20 mA
  - 20-4 mA (Reverse output)
  - 0-100 % / 100-0 % (PROFIBUS®)
- Adjustable damping (0 to 25 sec)
- Language selection
- Operational settings (protection, display, HART® versions, PROFIBUS® PA)
- Read out on display:
  - Current (4 - 20 mA)
  - Pressure unit & conversions
  - Percentages
  - Temperature
- Simulation of current (2 wire and HART®)
- Linearization:
  - Horizontal tank
  - Vertical tank (cone, spherical or truncated bottom)
  - Customer specific linearization
- Burst mode settings (2 wire and HART®)
- Data and information overview
- PROFIBUS® PA address selection
- Calibration
- Factory settings

### Temperature Limits

- Ambient/Storage:
  - Standard: -20 °C to 70 °C (-4 °F to 158 °F)
  - ATEX T5-T1: -20 °C to 70 °C (-4 °F to 158 °F)
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  - High Temp option: 100 °C to 200 °C (210 °F to 390 °F)
  - Ultra-High Temp option: 150 °C to 280 °C (300 °F to 540 °F)

### Standard Pressure Range

- Accuracy 0.1 %
- Accuracy 0.075 %
- Optional
### ORDERING CODE

<table>
<thead>
<tr>
<th>EXAMPLE:</th>
<th>CP55</th>
<th>010</th>
<th>20</th>
<th>150</th>
<th>RF</th>
<th>FN</th>
<th>PA</th>
<th>EMC</th>
<th>G</th>
<th>10BR</th>
<th>S</th>
<th>XC3</th>
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<tbody>
<tr>
<td><strong>Model</strong></td>
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<td><strong>Accuracy</strong></td>
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<td>010</td>
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<td>007</td>
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</tr>
<tr>
<td>010</td>
<td>0,1% of adjusted span</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>007</td>
<td>0,075% of adjusted span</td>
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</tr>
</tbody>
</table>

### Connection size

**Process series PP55**

**Threaded:** see category "Reducing Nipple" for more connection options

- MG4F G ½" (½" BSP) with flush diaphragm
  - (only available for 10 or 100 bar ranges)
- MG6F G 1" (1" BSP) with flush diaphragm
- 08F 1" NPT with flush diaphragm (only available for 10 or 100 bar ranges)

**Weld-on Nipple**

- W33 Ø 33 mm connection nipple

**Manufacturer compatibility**

- X2 M44x1,25 threaded lock ring
  - (matches the 1-1/2" PMC and Rosemount)
- X10 Valcom process connection, ET 13
- X12 Satron / Valmet PASVE 1" BSP connection
- X37 Valcom process connection, ET 15

**Cleanline series CP55**

**Threaded:** see category "Reducing Nipple" for more connection options

- 85 G 1-½" with flush diaphragm
- 71 G 2" with flush diaphragm
- 67 1-½" NPT with flush diaphragm
- IC20 2" IDF coupling nut
- SU85 SMS-Union 1-½"
- SU71 SMS-Union 2"

**Milk coupling**

- MD25 Milk coupling DN25 (DIN 11851)
  - (only available for 10 or 100 bar ranges)
- MD40 Milk coupling DN40 (DIN 11851)
- MD50 Milk coupling DN50 (DIN 11851)

**Tri-Clamp**

- S15 1-½" Tri-Clamp (DIN 32676)
- S20 2" Tri-Clamp (DIN 32676)
- S30 3" Tri-Clamp (DIN 32676)

**Weld-on Nipple**

- W62 Ø62 mm connection hygienic nipple
- W85 Ø85 mm connection hygienic nipple

**Flange according ASME B16.5 or EN1092-1**

- 10 Flange size 1" (ASME)
- 15 Flange size 1-½" (ASME)
- 20 Flange size 2" (ASME)
- 30 Flange size 3" (ASME)
- DN25 Flange size DN25 (EN)
- DN40 Flange size DN40 (EN)
- DN50 Flange size DN50 (EN)
- DN80 Flange size DN80 (EN)

---

continued at page 4
### ORDERING CODE

<table>
<thead>
<tr>
<th>EXAMPLE:</th>
<th>CP55</th>
<th>010</th>
<th>20</th>
<th>150</th>
<th>RF</th>
<th>FN</th>
<th>EMC</th>
<th>G</th>
<th>10BR</th>
<th>S</th>
<th>XC3</th>
</tr>
</thead>
</table>

#### Connection size

<table>
<thead>
<tr>
<th>Cleanline series CP55</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>35 mm</strong></td>
</tr>
<tr>
<td><strong>76,1 mm</strong></td>
</tr>
</tbody>
</table>

#### Manufacturer compatibility

- **X1**: Universal adapter E+H flush
- **X4**: Varivent (baseplate from GEA, Tuchenhagen DN50 up to DN125)
- **X6**: APV baseplate
- **X7**: DRD flange
- **X13**: VEGA "LA" DN40
- **X25**: Anderson

#### Flange Pressure Rating

<table>
<thead>
<tr>
<th>Flange</th>
<th>Pressure Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>Flange rating 150 lbs (ASME)</td>
</tr>
<tr>
<td>300</td>
<td>Flange rating 300 lbs (ASME)</td>
</tr>
<tr>
<td>600</td>
<td>Flange rating 600 lbs (ASME)</td>
</tr>
<tr>
<td>900</td>
<td>Flange rating 900 lbs (ASME)</td>
</tr>
<tr>
<td>PN10</td>
<td>Flange rating PN 10 (EN)</td>
</tr>
<tr>
<td>PN16</td>
<td>Flange rating PN 16 (EN)</td>
</tr>
<tr>
<td>PN25</td>
<td>Flange rating PN 25 (EN)</td>
</tr>
<tr>
<td>PN40</td>
<td>Flange rating PN 40 (EN)</td>
</tr>
</tbody>
</table>

#### Flange

- **RF**: Raised face (ASME)
- **B1**: Raised face form B (EN)

#### Diaphragm Size

- **FN**: Standard diaphragm diameter Ø 35 mm
- **FE**: Increased diaphragm diameter Ø 76,1 mm

#### Output Signal

- **42**: 4 - 20 mA
- **HA**: 4 - 20 mA with HART® protocol
- **PA**: PROFIBUS® protocol
  (EMC electrical cable gland required, only available for non-ATEX execution)

#### Electrical Connection

- **JM**: M20x1,5 Female (standard)
- **EMC**: EMC for PROFIBUS® (standard for option PA)
- **EW**: M12, 4-pin in stainless steel 316 (1.4401)
- **HM**: Hirschmann connector plug (only available for non-ATEX executions)
- **JL**: 1/2 NPT Female conduit
- **KV1**: PG 9 cable gland
- **KV2**: PG 11 cable gland
- **KV3**: PG 13,5 cable gland
- **PA8**: PROFIBUS® connector with IP68

#### Pressure Type

- **G**: Gauge pressure (standard)
- **A**: Sensor connected to reference chamber for absolute pressure
- **V**: Compound or vacuum ranges

#### Pressure Ranges - Coding example only, see standard ranges on page 2

- **10BR**: 10 bar

*continued at page 5*
## ORDERING CODE EXAMPLE:

<table>
<thead>
<tr>
<th>Wetted Parts</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Diaphragm in Stainless steel 316L (1.4404) (standard)</td>
</tr>
<tr>
<td>H</td>
<td>Diaphragm in Hastelloy® C-276 (2.4819)</td>
</tr>
<tr>
<td>H1</td>
<td>Wetted parts (diaphragm and flange) in Hastelloy® C-276 (2.4819)</td>
</tr>
<tr>
<td>U</td>
<td>Wetted parts (diaphragm and flange) with Tantalum coating</td>
</tr>
<tr>
<td>W</td>
<td>Diaphragm in Stainless steel 316L (1.4404) and with Gold coating</td>
</tr>
</tbody>
</table>

### Options (If choosing an option(s) must include a "X")

#### Temperatur Option
- **HT**: High temperature execution with integrated cooling tower (Temperature range: 100 - 200 °C) (CP55 only; ATEX (Ex) max. 100 °C)
- **UT**: Ultra High temperature execution with integrated cooling tower (Temperature range: 150 - 280 °C) (CP55 only; not available for ATEX)
- **LT**: Low temperature execution (Temperature range: < 0 °C)

#### Reducing Nipple
- **Process series PP55**
  - RN1: G ¼" BSP Male
  - RN2: G ¼" BSP Female and G ½" BSP Male
  - RN3: G ½" BSP Male
  - RN4: G ½" BSP Female
  - RN5: G ½" BSP Male gauge connection DIN 16288
  - RN6: G ¾" BSP Male
  - RN7: ¼" NPT Male
  - RN8: ½" NPT Male
  - RN9: ½" NPT Female
  - RN10: ½" NPT Male and ¼" NPT Female
  - RN11: ¾" NPT Male
  - RN12: M20x1,5

- **Process series CP55**
  - RN13: ½" BSP Male
  - RN14: 1" BSP Male
  - RN15: ½" NPT Male
  - RN16: ½" NPT Female
  - RN17: ¾" NPT Male
  - RN18: 1" BSP Female
  - RN19: M20x1,5

#### Case
- **YW**: Enclosure stainless steel 316L (1.4404)
- **IP68**: Ingress protection IP68

#### Electrical Cable
- **without cable (standard)**
- **EC**: With electrical cable

#### Electrical Cable Length
- 0,5...100: Cable length in 0.5 m steps

#### Digital Indicator
- **Blank cover (same material as enclosure; standard)**
- **DG**: Transparent polycarbonate cover

#### Remote Sensor
- **RE**: Remote Sensor connected with cable to enclosure and separated electronics

#### Remote Sensor cable length
- 3 ... 100: Remote cable length in 0.5 m steps

**continued at page 6**
# PP55-CP55 Pressure Transmitters Platinum Series

## Process and Cleanliness

### Ordering Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP55</td>
<td>010</td>
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<tr>
<td></td>
<td>20</td>
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<tr>
<td></td>
<td>150</td>
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<td>10BR</td>
</tr>
<tr>
<td></td>
<td>XC3</td>
</tr>
</tbody>
</table>

### Options (If choosing an option(s) must include a "X")

#### Agency Approval

- **EX4**: ATEX: II 1 G Ex ia IIC T4 Ga and IECEx: Ex ia IIC T4 Ga
- **EX5**: ATEX: II 1 G Ex ia IIC T5 Ga and IECEx: Ex ia IIC T5 Ga
- **EX6**: ATEX: II 1 G Ex ia IIC T6 Ga and IECEx: Ex ia IIC T6 Ga

#### Mounting

- **FW**: Wall mounting bracket, Material 304 (1.4301)
- **FW1**: Wall mounting bracket, Material 316L (1.4404)
- **TM**: 2" pipe mounting bracket, Material 304 (1.4301)
- **TM1**: 2" pipe mounting bracket, Material 316L (1.4404)

#### Cleaning

- **6B**: Cleaned for gaseous Oxygen or other strong oxidizing agents
- **YF**: Cleaned silicone free

#### Marking/Tagging

- **NH**: Stainless steel tag, wired to case
- **NH1**: Extra large stainless steel tag, wired to case
- **NN**: Paper tag, bonded to enclosure

#### Testing/Certificates

- **CD2**: Material test report according to EN 10204 / 2.2
- **C3**: Material report according to EN 10204 / 3.1
- **C4**: Individual calibration chart
- **CL**: Calibration according to customer requirements

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**Data Sheet**

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Data Sheet

PP55-CP55 Pressure Transmitters Platinum Series
Process and Cleanline

PLATINUM SERIES - PROCESS
DIMENSIONS IN MM [INCH]

For reference only, consult Ashcroft for specific dimensional drawings

<table>
<thead>
<tr>
<th>CODE (LEFT)</th>
<th>DIAMETER (MM)</th>
<th>DIAMETER (INCH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG6F</td>
<td>Ø 33</td>
<td>(1.29)</td>
</tr>
<tr>
<td>G 1” with flush diaphragm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CODE (RIGHT)</th>
<th>DIAMETER (MM)</th>
<th>DIAMETER (INCH)</th>
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<tbody>
<tr>
<td>W33</td>
<td>Ø 33</td>
<td>(1.29)</td>
</tr>
<tr>
<td>Ø 33 mm connection nipple</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THREADED

WELD-ON NIPPLE

MANUFACTURER COMPATIBILITY

Code: X2 (left)
M44x1.25 threaded lock ring
(1-1/2” PMC and Rosemount)

Code: X12 (right)
PASVE 1” BSP
(Satron/Valmet)
Data Sheet

PP55-CP55 Pressure Transmitters Platinum Series Process and Cleanline

**PLATINUM SERIES - CLEANLINE**

**DIMENSIONS IN MM [INCH]**

For reference only, consult Ashcroft for specific dimensional drawings

### TRI-CLAMP

**Code:** S20

**Tri-Clamp 2”**

103

(4.05)

### TRI-CLAMP

**Code:** S15

**Tri-Clamp 1-1/2” with cooling tower**

### FLUSH DIAPHRAGM

**Code:** 85

**G 1-1/2” threaded with flush diaphragm**

### IDF

**Code:** IC20

**2” IDF coupling nut**

### MILK-COUPLING

**Code:** MD25, MD40 or MD50

### WELD-ON NIPPLE

**Code:** W85

**Ø 85 Hygenic nipple connection**

### FLANGED

**Code for EN 1092-1: DN25, DN40, DN50 or DN80**

**Code for ASME B16.5: 15, 20 or 30**

**Flanged connection according standard**

### MANUFACTURER COMPATIBILITY

**Code:** X1

**Universal flush diaphragm (Endress & Hauser)**

**Code:** X4

**GEA Tuchenhagen Varivent® DN50 (up to DN125)**

**Code:** X13

**VEGA “LA” DN40**