

# PA3026



## Pressure transmitter with ceramic measuring cell

PA-2,5-RBR14-A-ZVG/US/ IV



| Product characteristics      |                                           |                 |            |             |
|------------------------------|-------------------------------------------|-----------------|------------|-------------|
| Number of inputs and outputs | Number of analogue outputs: 1             |                 |            |             |
| Measuring range              | 0...2.5 bar                               | 0...2500 mbar   | 0...36 psi | 0...250 kPa |
| Process connection           | threaded connection G 1/4 internal thread |                 |            |             |
| Application                  |                                           |                 |            |             |
| Special feature              | Gold-plated contacts                      |                 |            |             |
| Application                  | for industrial applications               |                 |            |             |
| Media                        | liquids and gases                         |                 |            |             |
| Medium temperature           | -25...90; (on request: -40...90 °C)       |                 |            |             |
| Min. bursting pressure       | 50 bar                                    | 725 psi         | 5 MPa      |             |
| Pressure rating              | 20 bar                                    | 290 psi         | 2 MPa      |             |
| Type of pressure             | relative pressure                         |                 |            |             |
| Electrical data              |                                           |                 |            |             |
| Operating voltage            | [V]                                       | 9.6...32 DC     |            |             |
| Min. insulation resistance   | [MΩ]                                      | 100; (500 V DC) |            |             |
| Protection class             | III                                       |                 |            |             |
| Reverse polarity protection  | yes                                       |                 |            |             |
| Inputs / outputs             |                                           |                 |            |             |
| Number of inputs and outputs | Number of analogue outputs: 1             |                 |            |             |
| Outputs                      |                                           |                 |            |             |
| Total number of outputs      | 1                                         |                 |            |             |
| Output signal                | analogue signal                           |                 |            |             |
| Number of analogue outputs   | 1                                         |                 |            |             |
| Analogue current output      | [mA]                                      | 4...20          |            |             |



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|                                    |                           |                                                                                           |                   |            |             |
|------------------------------------|---------------------------|-------------------------------------------------------------------------------------------|-------------------|------------|-------------|
| Max. load                          | [Q]                       | 720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)                                                    |                   |            |             |
| Overload protection                |                           | yes                                                                                       |                   |            |             |
| Measuring/setting range            |                           |                                                                                           |                   |            |             |
| Measuring range                    |                           | 0...2.5 bar                                                                               | 0...2500 mbar     | 0...36 psi | 0...250 kPa |
| Accuracy / deviations              |                           |                                                                                           |                   |            |             |
| Repeatability                      | [X21]                     | < 0,1; (with temperature fluctuations < 10 K)                                             |                   |            |             |
| Characteristics deviation          | [X21]                     | < ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |                   |            |             |
| Long-term stability                | [X21]                     | < ± 0,05; (per 6 months)                                                                  |                   |            |             |
| Temperature coefficient zero point | [X22]                     | 0,1; (0...80 °C)                                                                          |                   |            |             |
| Temperature coefficient span       | [X22]                     | 0,2; (0...80 °C)                                                                          |                   |            |             |
| Response times                     |                           |                                                                                           |                   |            |             |
| Step response time analogue output | [ms]                      | 3                                                                                         |                   |            |             |
| Operating conditions               |                           |                                                                                           |                   |            |             |
| Ambient temperature                | [°C]                      | -25...80                                                                                  |                   |            |             |
| Storage temperature                | [°C]                      | -40...100                                                                                 |                   |            |             |
| Protection                         |                           | IP 65                                                                                     |                   |            |             |
| Tests / approvals                  |                           |                                                                                           |                   |            |             |
| EMC                                | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD                                                                         |                   |            |             |
|                                    | EN 61000-4-3 HF radiated  | 30 V/m                                                                                    |                   |            |             |
|                                    | EN 61000-4-4 Burst        | 2 kV                                                                                      |                   |            |             |
|                                    | EN 61000-4-6 HF conducted | 10 V                                                                                      |                   |            |             |
|                                    | radiation of interference | according to the automotive directive 2004/104/EC                                         |                   |            |             |
|                                    | CISPR 25                  |                                                                                           |                   |            |             |
|                                    | immunity                  | according to the automotive directive 2004/104/EC                                         |                   |            |             |
|                                    | ISO 11452-2 HF radiated   | 100 V/m                                                                                   |                   |            |             |
| Shock resistance                   | ISO 7637-2 pulse          | severity level 4                                                                          |                   |            |             |
|                                    | DIN EN 60068-2-27         | 50 g (11 ms)                                                                              |                   |            |             |
| Vibration resistance               | DIN EN 61373              | category 3                                                                                |                   |            |             |
|                                    | DIN EN 60068-2-6          | 20 g (10...2000 Hz)                                                                       |                   |            |             |
| MTTF                               | DIN EN 61373              | category 2                                                                                |                   |            |             |
|                                    | [ANN]                     | 506                                                                                       |                   |            |             |
| Pressure Equipment Directive       |                           | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request     |                   |            |             |
| Railway applications               |                           | DIN EN 50155 / IEC 60571                                                                  | Klasse T3, C1, S1 |            |             |
| Mechanical data                    |                           |                                                                                           |                   |            |             |
| Weight                             | [g]                       | 222.5                                                                                     |                   |            |             |
| Materials                          |                           | stainless steel (1.4404 / 316L); FKM; PA; EPDM/X                                          |                   |            |             |
| Materials (wetted parts)           |                           | stainless steel (1.4305 / 303); ceramics; FKM                                             |                   |            |             |
| Min. pressure cycles               |                           | 100 million                                                                               |                   |            |             |
| Process connection                 |                           | threaded connection G 1/4 internal thread                                                 |                   |            |             |
| Restrictor element integrated      |                           | no (can be retrofitted)                                                                   |                   |            |             |
| Remarks                            |                           |                                                                                           |                   |            |             |
| Pack quantity                      |                           | 1 pcs.                                                                                    |                   |            |             |

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### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection

