

# Pressure vacuum generator PGVA-1-P-D30-Q4-A

Part number: 8165129

FESTO



 General operating condition

## Data sheet

| Feature                                      | Value  |
|--|--|
| Mounting position                            | Any  |
| Grade of filtration                          | 0.01 µm  |
| Configuration support                        | CODESYS V3<br>Python scripts<br>Integrated web server                                |
| Parameterization                             | System parameter<br>CODESYS V3   |
| Display                                      | LED  |
| Output pressure 1                            | -0.045 MPa   |
| Output pressure 2                            | 0.045 MPa  |
| Standard flow rate                           | <1 l/min   |
| Dimensions W x L x H                         | 210 mm x 208 mm x 76 mm  |
| DC operating voltage range                   | 21.6 V ... 26.4 V  |
| Electrical power consumption                 | 19 W   |
| Nominal operating voltage DC                 | 24 V   |
| Permissible voltage fluctuations             | +/- 10 %   |
| Power supply, function                       | Digital output<br>Load and functional earth  |
| Power supply, type of connection             | Socket   |
| Power supply, connection technology          | Terminal strip   |
| Power supply, number of pins/wires           | 5  |
| Power supply, connection pattern             | 00997301   |
| Certification                                | RCM compliance mark  |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU RoHS directive                                  |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions                                |
| Vibration resistance                         | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                             | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)             | 0 - No corrosion stress  |
| LABS (PWIS) conformity                       | VDMA24364 zone III   |
| Storage temperature                          | -20 °C ... 70 °C   |
| Relative air humidity                        | 0 - 85 %<br>Non-condensing   |
| Sound power level                            | 55 dB(A)   |
| Degree of protection                         | IP20   |
| Ambient temperature                          | 0 °C ... 40 °C   |

| Feature   | Value   |
|---|---|
| Product weight                                      | 3200 g  |
| Absolute accuracy in ± %FS at room temperature      | 1 %FS   |
| Electrical actuation                                | COM port<br>Ethernet<br>Integrated controller       |
| Serial interface, function                          | Communication<br>Parameterization and commissioning |
| Serial interface, connection type                   | Socket  |
| Serial interface, connection technology             | Sub-D   |
| Serial interface, protocol                          | RS232   |
| Serial interface, transmission rate                 | 1200 ... 115200 bit/s                               |
| Ethernet interface, connection type                 | Socket  |
| Ethernet interface, connection technology           | RJ45  |
| Ethernet interface, transmission rate               | 100 Mbit/s  |
| Ethernet interface, function                        | Parameterization and commissioning                  |
| Ethernet interface, protocol                        | Modbus® TCP   |
| Electrical sensor connection, connection type       | Socket  |
| Electrical connection sensor, design                | Round   |
| Electrical sensor connection, connection technology | M8x1 A-coded as per EN 61076-2-104                  |
| Electrical connection sensor, connection pattern    | 00991871  |
| Electrical connection sensor, input signal          | 0 - 10 V<br>0 - 5 V                                 |
| Electrical connection sensor, output signal         | 24V DC  |
| Type of mounting                                    | With internal thread M4                             |
| Pneumatic connection 1                              | QS-4  |
| Pneumatic connection, number                        | 1   |
| Housing colour                                      | Gray  |
| Note on materials                                   | RoHS-compliant                                      |
| Housing material                                    | Aluminum, powder-coated                             |