VPGate

The VPGate product line is a series of gateways that enable you to connect any equipment very quickly and at low costs with a serial link to a network. We have VPGates available for PROFIBUS DP, PROFINET and Modbus TCP. All VPGates do not require any additional programming software tools.

VPGate allows for effective diagnostics via an integrated webpage or PROFIBUS and RS-232 diagnostic connections. The system also has diagnostic LEDs on the frontpanel. It supports Modbus RTU, ASCII and transparent mode. This opens up the gateway to support building, factory, process, or other types of automation. For example, HMI’s and barcode scanners commonly use raw serial protocols which could be handled by transparent mode.

The VPGate is an economically attractive solution to enable integration in an existing network. Industrial Ethernet VPGates come with the option of a customized user manual (multiple languages) for large accounts or end users.

Compatible with Atlas

Atlas is the solution for monitoring and diagnosing Industrial Ethernet networks. The tool provides unique insight and knowledge of networks and an overview of the network health, with easy to use and understand displays. For more information about Atlas please see our website www.procentec.com/atlas.

Find the VPGate products that are compatible with our Atlas solution in the overview.

Your benefits

Design
- All gates accept RS-232 or RS-485
- Compact design
- I/O capabilities

Diagnostics
- Easy first level diagnostics
- Easy integrated web interface

Capabilities
- Support of MODBUS RTU, ASCII and transparent mode
- Indicators for easy first level diagnostic
- Termination and polarisation can be enabled/disabled on serial side
- No programming software tool required
- Customized web pages

... and more! Interested in a free demo?
Contact us at info@procentec.com

Contact us at info@procentec.com
## VPGate

### Family overview

<table>
<thead>
<tr>
<th>Order code</th>
<th>PROFIBUS DP to serial</th>
<th>PROFINET to serial</th>
<th>MODBUS TCP to serial</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PROFIBUS DP</td>
<td>PROFIBUS DP</td>
<td>MODBUS TCP</td>
</tr>
<tr>
<td>Connection</td>
<td>PROFIBUS DP</td>
<td>PROFIBUS DP</td>
<td>MODBUS TCP</td>
</tr>
<tr>
<td>Features</td>
<td>PROFIBUS DP (DP V0), DP V1, sync, freeze, fail-safe</td>
<td>Auto-negotiation / auto-crossover / auto-polarisation / MRP-client</td>
<td>Auto-negotiation / auto-crossover / auto-polarisation</td>
</tr>
<tr>
<td>Operation mode</td>
<td>Slave</td>
<td>1:1-Device</td>
<td>MODBUS client / MODBUS server / MODBUS gateway</td>
</tr>
<tr>
<td>Speed</td>
<td>9.6 Kbps / 12 Mbps (auto-detection)</td>
<td>10 / 100 Mbps</td>
<td>10 / 100 Mbps</td>
</tr>
<tr>
<td>Configuration method</td>
<td>GSD file via standardised configuration tool</td>
<td>GSD file via standardised configuration tool</td>
<td>Standard MODBUS program, web interface</td>
</tr>
</tbody>
</table>

### Main side

| Device access | Full duplex RS-232, half duplex RS-485 via PIN Connector | Full duplex RS-232, half duplex RS-485 via PIN Connector | Full duplex RS-232, half duplex RS-485 via PIN Connector |
| Protocols     | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent |
| Operation mode | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent |
| Speed         | 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 Kbps | 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 Kbps | 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 Kbps |
| Data exchange | 7 or 8 bits | 7 or 8 bits | 7 or 8 bits |
| Termination & polarisation | Configurable for RS-485 | Configurable for RS-485 | Configurable for RS-485 |
| Supported functions | MODBUS: 1, 2, 3, 4, 5, 6, 7, 15, 16, 23, Transparent end of frame, End of frame character, known length, on time out | MODBUS: 1, 2, 3, 4, 5, 6, 7, 15, 16, 23, Transparent end of frame, End of frame character, known length, on time out | MODBUS: 1, 2, 3, 4, 5, 6, 7, 15, 16, 23, Transparent end of frame, End of frame character, known length, on time out |

### Serial side

| Protocols | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent |
| Operation mode | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent | MODBUS RTU or ASCII / transparent |
| Speed         | 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 Kbps | 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 Kbps | 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 Kbps |
| Data exchange | 7 or 8 bits | 7 or 8 bits | 7 or 8 bits |

### Others

| Power supply | 10...30 VDC @ 1.5 W | 24 VDC @ 1.7 W | 12...30 VDC @ 1.7 W |
| Dimensions L x W x H | 120 x 100 x 23 mm | 120 x 100 x 23 mm | 120 x 100 x 23 mm |
| Weight       | 130 g | 130 g | 130g |
| Operating temperature | 0...55 °C | 0...55 °C | 0...55 °C |

www.procentec.com/vpgate
Complete service portfolio

PROCENTEC offers you a complete range of services to support you as a user or supplier of fieldbus technology. Our experts with their PROFIBUS and PROFINET knowledge excel within their field of work, so rest assured that you will receive the optimal solution.

We are an official PROFIBUS International Competence Center (PICC), in addition to a PROFIBUS International Training Center (PITC) and a PROFIBUS International Test Lab (PITL). A huge bundle of expertise is therefore at your disposal!

Support

Our PROCENTEC Support Engineers live to solve any network problem you might have. In case of emergency, call the support hotline: +31 (0)6 100 742 76. Our engineers are equipped with a wealth of specialist knowledge and all necessary tools. They will gladly help you with:

- On-site and online support
- Network audits
- Network certifications
- Consultancy
- Product certifications

Training

As a PITC we give training courses at our offices, though we also teach on-site anywhere in the world. Our goal is to give technicians that extra set of skills to professionally use PROFIBUS and PROFINET. Also supervisory staff can use the acquired knowledge to optimize the system’s entire life cycle. We offer the following courses:

- PROFIBUS or PROFINET Troubleshooting & Maintenance
- Certified PROFIBUS Installer
- Certified PROFIBUS (DP/ PA) or PROFINET Engineer

Visit us

PROCENTEC BV  
Klopperman 16  
2292 JD Wateringen  
The Netherlands  
T: +31 (0)174 671 800  
F: +31 (0)174 671 801  
E: info@procentec.com  
W: www.procentec.com

PROCENTEC GmbH  
Benzstraße 15  
76185 Karlsruhe  
Deutschland  
T: +49 (0)721 831 6630  
F: +49 (0)721 831 66329  
E: info@procentec.de  
W: www.procentec.de

PROCENTEC Srl  
Via Branze, 44  
25123 Brescia (BS)  
Italy  
T: +39 (0)30 200 8610  
F: +39 (0)30 238 0059  
E: info@procentec.it  
W: www.procentec.it