Presentation
Communication gateway LA9 P307 provides connection between the Profibus DP and Modbus buses. It is a Slave on the Profibus DP bus and Master on the Modbus bus. It manages information present on the Modbus bus to make it available for read/write functions in the Master PLC on the Profibus DP bus.

Gateway LA9 P307 consists of a box which can be clipped onto a 35 mm omega rail. It manages up to 15 Slaves on the Modbus bus.

Example of architecture

![Diagram of architecture]

Description
Gateway LA9 P307 comprises:
1. A SUB-D 9-way female connector for connection to the Profibus DP bus,
2. A line end adapter on the Profibus DP bus,
3. Gateway address coding on the Profibus DP bus,
4. Status signalling LED,
5. RJ 45 female connector for connection on the Modbus bus,
6. 24 V power supply.

Software set-up
The gateway is configured using the standard software tools for the Profibus bus. For the Premium automation platform, use SYCON configurator software. The user's manual (.PDF) and the gateway description file (.GSD) are supplied on diskette with the gateway.
### Characteristics

<table>
<thead>
<tr>
<th>Environment</th>
<th>Conforming to IEC 664</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient air temperature</td>
<td>°C</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Number of Modbus slaves which can be connected</td>
<td>15</td>
</tr>
<tr>
<td>Connection on Modbus</td>
<td>RJ 45 connector</td>
</tr>
<tr>
<td>Connection on Profibus</td>
<td>SUB-D 9-way female connector</td>
</tr>
<tr>
<td>Supply</td>
<td>External supply: 24 V ± 20 %</td>
</tr>
<tr>
<td>Consumption</td>
<td>mA</td>
</tr>
<tr>
<td>Indication/diagnostics</td>
<td>By LED</td>
</tr>
<tr>
<td>Command</td>
<td>16 words</td>
</tr>
<tr>
<td>Monitoring</td>
<td>16 words</td>
</tr>
<tr>
<td>Configuration and adjustment</td>
<td>By gateway mini messaging facility (PKW)</td>
</tr>
</tbody>
</table>

#### References

**Description**
- Profibus DP/Modbus communication gateway
  - LT6 P
  - ATS 48
  - ATV 31/38/58/58F

**For use with**
- LA9 P307

**Reference**
- LA9 P307

**Weight**
- 0.260 kg

**Description**
- RJ 45 cable with stripped wires
  - Screw terminal block
  - T-junction box TSX SCA 50
  - Y-junction subscriber socket
  - TSX SCA 62
  - SUB-D connector
    - (to be ordered separately)
    - LT6 P (SUB-D 9 female)
    - ATV 58 (SUB-D 9 male)

**For use with**
- ATP 48
  - ATV 31
  - Modbus splitter box LU9 GC3

**Length**
- 3 m

**Reference**
- VW3 A8 306 D30

**Weight**
- 0.150 kg

**Description**
- RJ 45-RJ 45 cable
  - ATP 48
  - ATV 31

**For use with**
- VW3 P07 306 R10

**Length**
- 1 m

**Reference**
- VW3 P07 306 R10

**Weight**
- 0.050 kg

**Connectors**
- Profibus
  - mid line
  - line end

**Reference**
- 490 NAD 911 04
  - 490 NAD 911 03

**Dimensions**

**LA9 P307**

![Dimensions Diagram]