AGILiGATE® PROFIBUS is a gateway which allows you to connect very quickly, and at low cost, any equipment with a serial link to a PROFIBUS DP fieldbus.

It is a PROFIBUS DP slave on one side, and a MODBUS master or slave, on the other side.

It is also possible to integrate other protocols on the serial link.

AGILiGATE® PROFIBUS can drive 20 MODBUS slaves. It can exchange up to 244 bytes of inputs, and 244 bytes of outputs on PROFIBUS.

AGILiGATE® PROFIBUS is built into your system without any line of code. All parameters are set in a very user friendly way, via your usual PROFIBUS configuration tool.
Main characteristics:

**PROFIBUS DP LINK**
- **Baudrate**: 9.6 kbps – 12 Mbps (auto detection)
- **Connector**: SubD9 female
- **Terminating resistor**: No
- **Address setting**: 2 hexadecimal rotary switches
- **Diagnostic**: - 27 bytes of extended diagnostic - 6 state LEDs.
- **Input bytes**: 0 - 244
- **Output bytes**: 0 - 244
- **Max. Input/Output bytes**: 300
- **Isolation**: 1 kV
- **Technology**: ASIC
- **Others**: Sync, Freeze

**MODBUS ASYNCHRONOUS SERIAL LINK**
- **Commissioning**: From the PROFIBUS configuration tool, via scroll down menus (using the GSD parameters)
- **Master/slave**: Parameterizable
- **Number of addressable MODBUS slave**: 20 MODBUS slaves
- **Number of frames**: 1 - 20 different MODBUS frames
- **Frame trigger**: Cyclic, on change, once
- **Number of accessible MODBUS registers**: 1 - 100 read registers
- **Max. total accessible MODBUS registers**: 150
- **Protocol**: MODBUS RTU or ASCII
- **Implemented functions**: 3, 4, 5, 6, 7, 16, 23

**MECHANICAL CHARACTERISTICS**
- **Case**: IP 20 Plastic case for rail DIN
- **Size**: 120 x 100 x 23 mm (L x I x h)
- **Weight**: About 100g
- **Storage temperature**: -25°C...+70°C
- **Use temperature**: 0°C...+55°C
- **Relative humidity of air**: Max. 80%

**Commissioning**
- **Function code**: Supported MODBUS functions
  - 3 (0x03) Multi register read
  - 4 (0x04) Multi register read
  - 5 (0x05) Single Boolean writing
  - 6 (0x06) Single register write
  - 7 (0x07) Read status
  - 16 (0x10) Multi register write
  - 23 (0x17) Multi register read/write (slave mode only)

---

**AGILiGATE® PROFIBUS** has 6 LEDs, which are helpful for a very quick diagnostic:

1 - Power ON
2 - Bus Failed
3 - Diagnostic
4 - RUN
5 - TxD MODBUS
6 - RxD MODBUS

---

**Ref** | **Designator**
--- | ---
AG-P011 | AGILiGATE PROFIBUS