

Intermediate RS-485 fiber optic converter

APP D485PM / D485PS

The devices APP D485PM / D485PS series enable fully transparent, two-way transmission of asynchronous data stream, in accordance with V.11 RS-485, 2-wire electrical interface, up to 115 kbps bit rate via fiber optic. The converter cooperates with others analog, fiber optic parts of Brabancja 2000 system.

The devices come in multi-mode versions enable transmission in 850 and 1300 nm windows as well as in single-mode version enables transmission in 1310 nm window via 4 fiber optics.

APP D485PM possesses 2 TX and 2 RX fiber optics and 1 electrical port. Connection with APP D485M makes it possible to create branched RS-485 data bus structure.

APP D485PM is equipped with 3-position dip switch enables to match the device with RS-485 data bus and to carry out link test of the proper optic connection.

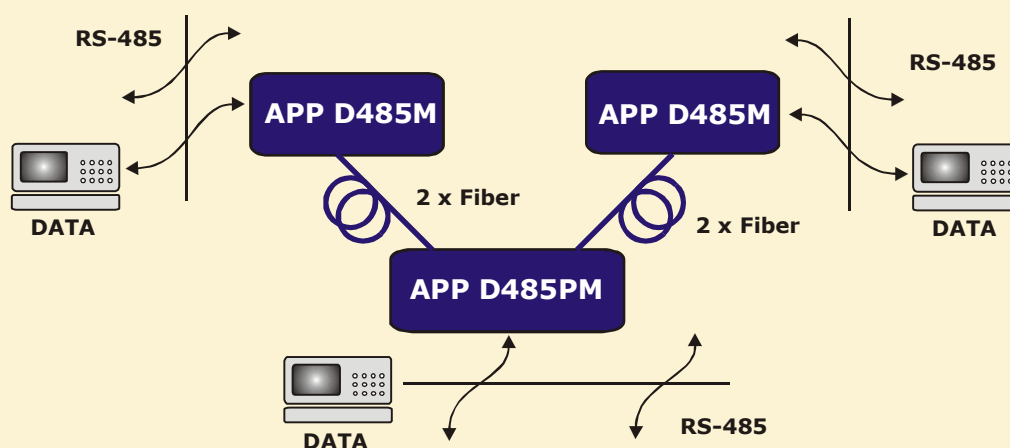
The devices are offered as a stand-alone with the possibility to install on the DIN TS-35 rail.



- **RS-485 data**
- **4 MM or SM fibers**
- **data bus configuration**
- **link test**
- **DIN TS-35 rail assembly**



Application diagram:



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Technical parameters:

V.11 interface:

number of channels: 1 two-way
data format: asynchronous, serial
electrical interface: V.11, transparent, 2-wire
data rate: 115 kbps

Optical interface:

optical medium: 50/125 μm , 62,5/125 μm , 9/125 μm
output wavelength: 850 nm, 1300 nm, 1310 nm
connector type: ST, FC

Operating temperature range: - 30 do + 60 °C

Power supply: 8 - 15 VDC

Dimensions: 25 x 75 x 55 mm

Housing: clear anodised aluminium

Device versions:

| Multi-mode system (MM) | | | |
|-------------------------|---------|-------------------------|-------------|
| APP D485PM | 1 x D ↔ | LED/PIN 850 nm, 4 x MM | up to 4 km |
| APP D485PM13 | 1 x D ↔ | LED/PIN 1300 nm, 4 x MM | up to 10 km |
| Single-mode system (SM) | | | |
| APP D485PS | 1 x D ↔ | LD/PIN 1310 nm, 4 x SM | up to 40 km |

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