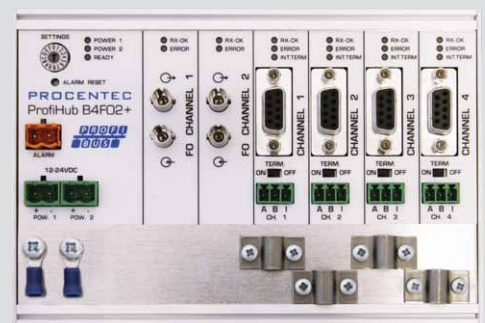# PROCENTEC

ProfiHub B4FO2+
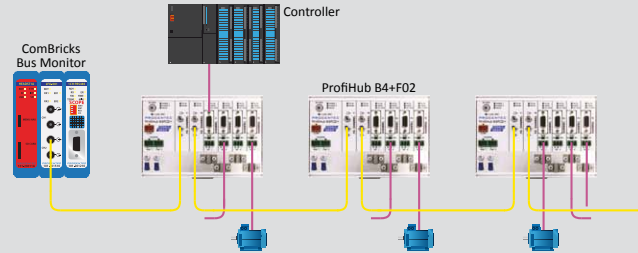
PROFIBUS Fiber Optic to Multi Segment Coupler

The ProfiHub B4FO2+ is the most cost effective solution for PROFIBUS fiber optic to multiple RS 485 segments and vice versa. It enables applications where long cable distances and an isolation between devices and segments is required. The massed junction of copper segments reduce expensive fiber optic couplers and create an object oriented overview for the end user.

The B4FO2+ is designed with the unique functionality of four galvanic isolated transparent repeaters and an optical link module in one device. It allows network structures with four extended spur lines that individually can handle up to a maximum of 31 devices and a length equal to the main bus. This robust network component is equipped with four copper segments with DP - RS 485 specifications. Because the ProfiHub B4FO2+ creates isolated segments, the devices can be removed and added during operation. Electrical bus problems and EMC disturbances in a spur do not spread to the other segments. The intelligent logic and isolation circuits of the ProfiHubs do not change the bit width. This means the ProfiHubs do not have limitations in serial placement.
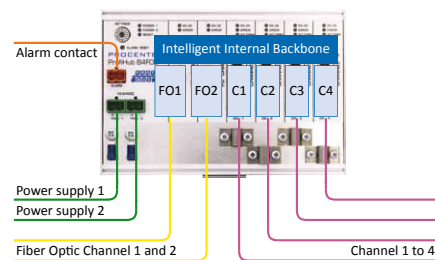
Application areas

- Dynamic spur lines to actuators, flow meters and pH analyzers
- Removable drives and motors
- Pull/plug motor control centers (drawers)
- Roof mounted devices in tank farms
- Barrier for non-galvanic isolated equipment
- Networks with requirement for high availability
- Large star/tree structured networks

Creating a fiber optic backbone increases network reliability and network overview. It is also possible to mix ProfiHubs with ComBricks.
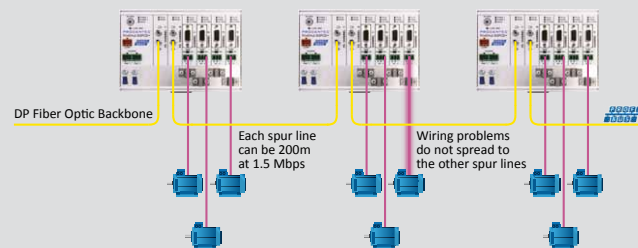
Your benefits

- Hot slave insertion and removal during operation
- Short circuit protection on each channel
- Option to create a redundant path to other supporting Hubs or ComBricks
- Compact and robust construction
- Status and error display (per channel)
- Suitable for all DP cables
- Conveniently arranged networks
- On-board DB9 female connector on each channel
- Cost savings

Product features

- 4 Galvanic isolated outgoing channels
- 2 Fiber optic channels
- Transparent for all PROFIBUS DP protocols
- DP - RS 485 specifications for each channel
- Cable redundancy (for copper channel 1 and 2)
- 9.6 Kbps to 12 Mbps
- 31 Devices per channel
- 1200m Spur line length (for copper channel 1 to 2)
- 3000m Cable length (for FO channel 1 and 2)
- Redundant power supply
- Alarm contact with manual reset button
- IP 20 classification
- Point-to-point, star and bus topologies
- 4 ST/BFOC connectors
- Compatible with most other vendors in 3rd party compatibility mode

Long spur lines to instruments and the possibility to remove/insert them during operation. Short circuit protection on each spur line is automatically provided.