



Remotus RX-MLink

Åkerströms' Remotus Mercury radio remote control system is developed to provide the safety and reliability that are required for wireless control of equipment in demanding industrial environments such as metal and processing industries, steel works, and mines. Åkerströms has more than 50 years of experience in developing radio control for industry and its specific needs.

The Remotus RX-MLink is a system for wireless data transmission between two Profibus DP busses. The system enables data communication between two busses within a large area or when direct bus connections are not possible. With the RX-MLink, you avoid expensive cable installation.

Connected to a Profibus DP field bus.

The RX-MLink units are connected as DP slaves to the Profibus DP field bus. Transmission time for 16 bytes-in and 16 bytes-out in both directions over the radio link is less than 100 ms. The units must be connected to both nodes in a Profibus DP master to enable data communication. There's a serial asynch-

ronous communication channel for communication, for example, with scales and position sensors.

Safety class 5 optional.

The Remotus RX-MLink is encased in aluminum for snap-in mounting on a symmetrical carrier rail (according to EN50 022, DIN rail). The RX-MLink complies with safety category 3 (according to prEN 954/11 Part 1, DIN V 19250/.94 and DIN V VDE 0801/1.90). Option: Safety category 5 can be provided by using double micro-processor channels (redundancy).

Powerful PLC-system.

The Remotus RX-MLink has a powerful, built-in programmable logic controller (PLC) system that handles sophisticated data processing. It also has 14-bit address, which enables 16,384 addresses; serial, asynchronous communication channel for communication, for example, with scales and position sensors; a built-in monitor for test and parameter settings, and indicators of different functions in the system (e.g., status and outputs).

TECHNICAL FACTS

Radio frequency: 405-470 MHz
Channel separation: 25 kHz; 20/12.5 kHz optional
Output power: 50/500 mW
Sensitivity (9600 b): -100 dBm
Transmission speed: 9600 or 4800 baud
Link reversal time: 3 ms
Type of transmission: FM FSK
The radio fulfills: ETS 300 220

Field bus:

Profibus DP slave:

- ID = 0765 (hex)
- Address = 55 (00-99)
- 16 (8) bytes consistent data in
- 16 (8) bytes consistent data out
- Transmission time of 16 bytes in both directions over the radio link is less than 100 ms

Extra communication channel: serial asynchronous RS232/RS485

Supply voltage: 24 V DC (11-35 V DC)
Power consumption: Maximum 9 W
Operating temperature range: -25°C to +55°C
Storage temperature range: -40°C to +85°C
HK relays: 2: 250 V AC, 10 A
Size: 125 x 135 x 135 mm
Weight: 1.4 kg