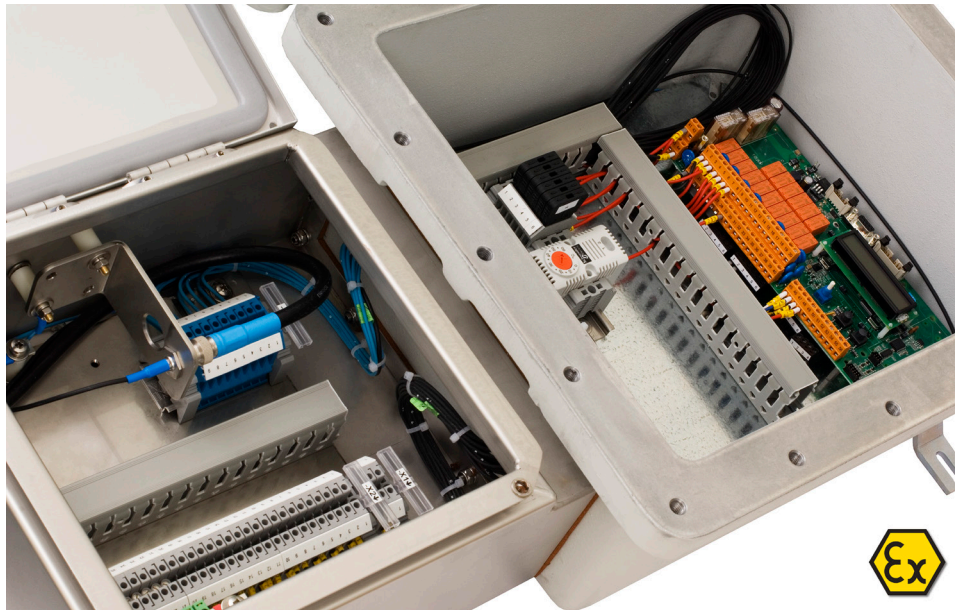
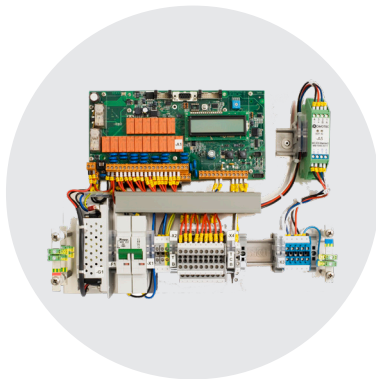


EX - Receiver Units



*Closed EXde enclosure for EX receiver,
painted aluminium housing*



Mounting plate for EX receivers



Open EXde enclosure for EX receiver

Cavotec is a leading cleantech company that designs and delivers connection and electrification solutions to enable the decarbonization of ports and industrial applications.

For more than 30 years, Cavotec has engineered advanced radio remote control systems in close co-operation with customers worldwide.

Cavotec's EX receivers enable operators to work safely and efficiently even in the most demanding of environments.

Benefits

Radio Remote Control systems ensure safer and more efficient operations:

- Wireless operator panel ensure operators are positioned in safe area from the machine being controlled with the optimal view of the operations
- Wireless operator panel further enables operators to move freely and to react quickly in an emergency

Our systems include a number of safety features as standard:

- Use of most advanced and reliable electronics components and processors
- Dual processors fitted to IEC61508 standard, based on two programming platforms ensure complete redundancy
- Emergency stop button ensures operators can completely stop any operation within only 50mS
- Full system check at power up
- Two-way radio link with unique ID-coding, CRC check and hamming distance of 6
- Continuous radio link monitoring, automatic stop engaged in the event of lost signal
- SIL-3 certified stop function
- Dual monitoring of joysticks

Applications

In offshore and mining applications, EX systems ensure operators are safely positioned away from heavy, mobile equipment being hoisted, moved or lifted.

Technical characteristics

MC-IRX Receiver

- The MC-IRX is one of the most advanced receiver units which can be used to control most common valve types, both digital and proportional signals
- Monitoring display with a PLC functionality are part of our standards
- Heavy built and long lasting with the EXd and EXde enclosures both in stainless steel and painted aluminum in various sizes
- Enclosure technical data:
 - Painted aluminum EXde enclosure: zone 1 or 2, gas group IIB
 - Stainless steel EXde enclosure: zone 1 or 2, gas group IIB/IIC
 - Mounting plate/ DIN rail: for mounting outside hazardous area or in EX zone inside customers' own enclosure

Technical data MC-IRX Receiver

- Supply voltage receiver: 12 / 24 VDC; 110-240 / 380 VAC 50/60 Hz
- 16 relay outputs, 12 NO-relays, 4 are alternating, 5 Amp
- Up to 4 analogue and/or 24 digital input for feedback
- MUS-bus connection allows extensions, additional relays and proportional outputs

Fieldbus receivers

Customizing being a key element, Cavotec fieldbus units are designed to be used with a variety of bus formats as indicated in the list below:

- ProfiBus
- ModBus RTU
- CANopen
- J1939
- Device Net
- Modbus Plus
- Modbus TCP
- Ethernet IP
- HostLink

Supply voltage receiver: 10 / 30 VDC; 48 / 260 VAC 50/60 Hz

Approvals & Standards

Cavotec radio remote control systems comply with a variety of international rules and regulations. All systems are CE marked and can be used with our FCC Part 90 approved radio. The systems are designed in accordance with the Machinery Directive and comply with IEC 60204 and ISO 13849. In addition we have a wide range of compliant radios that can be used in type approvals of systems for specific countries worldwide.

Please contact your local Cavotec Sales Office for further information at cavotec.com. Disclaimer: specifications are subject to change without notice.