

ENGINEERING
TOMORROW*Danfoss*

Data Sheet

Remote Control

MP08 TR2400 Receiver

The MP08 TR2400 receiver is highly customizable with many features and mounting kits to ensure reliable and safe operation in potentially dangerous applications.

Features

- External LEDs for troubleshooting
- Removable EEPROM SIM module
- 8 digital and 4 analogue outputs

2.4 GHz

- Universal 2.4 GHz radio

Benefits

- Highly field-customizable
- Frequency management against interferences
- Fast and easy maintenance
- Multi-feedback capability
- Suitable for all common proportional valves

Applications

- Cranes
- Construction vehicles
- Marine vehicles



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Technical data

| Specification | Value |
|----------------------------------|--|
| Stop function | Cat. 3-PLe EN12849-1 and SIL 3 IEC 61508 / IEC 62061 |
| Ingress protection | IP65/NEMA4 |
| Frequency band | 2405 to 2475 MHz |
| AC power supply | N/A |
| DC power supply | 6-35 Vdc |
| Antenna | External/internal (default) |
| Removable EEPROM | Internal |
| Signaling | External |
| ON/OFF outputs (max) | 12 |
| Analog outputs (max) | 4 (PWM) |
| CANOpen | N/A |
| ON/OFF inputs (max) | 4 |
| Analog inputs (max) | 1 |
| Maximum output current (digital) | 2A |
| Maximum output current (analog) | 2.5A |
| Working temperature range | -20° to 70° C (-4° to 158° F) |
| Storage temperature | (24h): -25/+75° C (-13/+167° F) |
| Weight | 300 grams |
| Dimensions (LxWxH) | 117x113x36 mm |
| Cable connection | Yes |
| Associated transmitters | lkompact |

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MP08A/MP08V Receiver

The MP08A/MP08V receiver is highly customizable with many features and mounting kits to ensure reliable and safe operation in potentially dangerous applications.

Features

- Available for 400-900 MHz and 2.4 GHz Frequency Bands
- External LEDs for troubleshooting
- Removable EEPROM SIM module
- 8 digital and 4 analog outputs

Benefits

- Highly field customizable
- Frequency management against interferences
- Easy and fast maintenance
- Suitable for all common proportional valves

Applications

- Construction and mining vehicles and cranes
- Industrial vehicles
- Agriculture and forestry
- Maritime



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Technical data

| Specification | MP08A | MP08V |
|--|---|-----------------------------|
| Stop function (400-900 MHz) | Cat. 3-PLd | |
| Stop function (2.4 GHz) | Cat. 3-PLe | |
| Ingress protection | IP65/NEMA4 | |
| Frequency band - ERP | 433.050 to 434.040 MHz; ERP<1mW | |
| | 434.040 to 434.790 MHz; ERP<10mW | |
| | 869.700 to 870.000 MHz; ERP<5mW | |
| | 902.000 to 928.000 MHz; ERP<1mW | |
| | 2405MHz to 2475MHz; ERP 20dBm/100mW | |
| Range Line of sight (guaranteed) | 100m | |
| AC power supply | N/A | |
| DC power supply | 8-35 Vdc (200mA) | |
| Antenna | External/internal | |
| Removable EEPROM | Internal | |
| Signaling | External | |
| STOP Outputs (400 - 900MHz) | 1 | |
| STOP Outputs (2.4GHz) | 1 | |
| Start Output | N/A | |
| Safety Relay Output | N/A | |
| ON/OFF outputs | 4 (2A per Output) | 8 (2A per Output) |
| Proportional outputs | 4 PWM (2.5A per Output) | 4 Voltage (20mA per Output) |
| CAN Bus Protocols | N/A | CANopen |
| ON/OFF inputs | 4 | 2 |
| Proportional inputs | 1 | |
| Response Time | 100ms | |
| Maximum Total output current | 7.5A | |
| Operating temperature range | -20°C to 70°C (-4°F to 158°F) | |
| Storage Temperature Range (24h) | -25°C to 75°C (-13°F to 167°F) | |
| Storage Temperature Range (long periods) | -25°C to 55°C (-13°F to 131°F) | |
| Relative Humidity | max. 95% without condensation | |
| Weight | 300g | |
| Dimensions | 117 x 133 x 36mm | |
| Tether Connection | N/A | |
| Associated transmitters (400 - 900MHz) | Ikargo1, Ikargo2, T70 1, T70 2, T70 1 HALL, T70 2 HALL, T70 1 ATEX, T70 2 ATEX, IK2, IK3, IK4 | |
| Associated transmitters (2.4 GHz) | Ikompact, Ikore, IkoreB, IK2, IK3, IK4 | |

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Remote Control MPCAN Receiver

The MPCAN receiver is highly customizable with many features and accessories, including a tether connection to the transmitter as an alternative to Wireless Radio Communication. The MPCAN is adapted to vehicles with CAN bus communications.

Features

- Available for 400-900 MHz and 2.4 GHz Frequency Bands
- External LEDs for troubleshooting
- Removable EEPROM SIM module
- 4 digital outputs/inputs

Benefits

- Highly field customizable
- Frequency management against interferences
- Easy and fast maintenance
- Full Duplex communication capability
- CANopen & J1939 in 2.4GHz model

Applications

- Construction and mining vehicles and cranes
- Industrial vehicles
- Agriculture and forestry



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Technical data

| Specification | Value |
|--|---|
| Stop function (400 - 900 MHz) | Cat. 3-PLd |
| Stop Function (2.4 GHz) | Cat. 4-PLe |
| Ingress protection | IP65/NEMA4 |
| Frequency band - ERP | 433.050 to 434.040 MHz; ERP<1 mW |
| | 434.040 to 434.790 MHz; ERP<10mW |
| | 869.700 to 870.000 MHz; ERP<5 mW |
| | 902.000 to 928.000 MHz; ERP<1mW |
| | 2405MHz to 2475MHz 20dBm/100mW |
| Range Line of sight (guaranteed) | 100m |
| AC power supply | N/A |
| DC power supply | 8 - 35 Vdc |
| Receiver Current Consumption | 200mA |
| Antenna | External/Internal |
| Removable EEPROM | Internal |
| Signaling | External |
| STOP Outputs (400 - 900MHz) | 2 |
| STOP Outputs (2.4GHz) | 2 |
| Start Output | N/A |
| Safety Relay Output | N/A |
| ON/OFF outputs | 4 (2A per output) |
| Proportional outputs | N/A |
| CAN Bus Protocols (400-900MHz) | CANopen |
| CAN Bus Protocols (2.4GHz) | CANopen, J1939 |
| ON/OFF inputs | 4 |
| Proportional inputs | N/A |
| Reponse time | 100ms |
| Maximum Total output current | 7.5A |
| Operating temperature range | -20° C to +70° C (-4° F to +158° F) |
| Storage Temperature Range (24h) | -25°C to 75°C (-13°F to 167°F) |
| Storage Temperature Range (long periods) | -25°C to 55°C (-13°F to 131°F) |
| Relative Humidity | max. 95% without condensation |
| Weight | 300 grams |
| Dimensions | 117 x 133 x 36 |
| Tether connection | Yes (M12 Connector) |
| Associated transmitters (400 - 900MHz) | Ikargo1, Ikargo2, T70 1, T70 2, T70 1 HALL, T70 2 HALL, T70 1 ATEX, T70 2 ATEX, IK2, IK3, IK4 |
| Associated transmitters (2.4 GHz) | Ikcompact, Ikore, IkoreB, IK2, IK3, IK4 |

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Remote Control MP20A/MP20V Receiver

The MP20A/MP20V receiver is highly customizable with many features and mounting kits to ensure reliable and safe operation in potentially dangerous applications.

Features

- Available for 400-900 MHz and 2.4 GHz Frequency Bands
- External display for troubleshooting
- External Removable EEPROM SIM module
- 12 digital and 8 Proportional outputs (PWM/Voltage)

Benefits

- Highly field customizable
- Frequency management against interferences
- Easy and fast maintenance
- Suitable for all common proportional valves

Applications

- Construction and mining vehicles and cranes
- Industrial vehicles
- Agriculture and forestry
- Maritime



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Technical data

| Specification | MP20A | MP20V |
|--|--|-----------------------------|
| Stop Function (400-900 MHz) | Cat. 3-PLd | |
| Stop Function (2.4GHz) | Cat. 3-PLe | |
| Ingress protection Rating | IP65/NEMA4 | |
| Frequency band - ERP | 433.050 to 434.040 MHz; ERP<1mW | |
| | 434.040 to 434.790 MHz; ERP<10mW | |
| | 869.700 to 870.000 MHz; ERP<5mW | |
| | 902.000 to 928.000 MHz; ERP<1mW | |
| | 2405MHz to 2475MHz 20dBm/100mW | |
| Range Line of sight (guaranteed) | 100m | |
| AC power supply | N/A | |
| DC power supply | 8-35 Vdc | |
| Receiver Current Consumption | 200mA | |
| Antenna | External | |
| Removable EEPROM | External | |
| Signaling | External | |
| STOP Outputs (400-900MHZ) | 1 | |
| STOP Outputs (2.4GHz) | 1 | |
| Start Output | N/A | |
| Safety Relay | N/A | |
| ON/OFF Outputs | 12 (2A per Output) | |
| Proportional Outputs | 8 PWM (2.5A per Output) | 8 Voltage (20mA per Output) |
| CAN Bus Protocols | CANopen | |
| ON/OFF Inputs | 4 | |
| Analog inputs | Optional | |
| Maximum Total Output Current | 7.5A | |
| Working Temperature Range | -20°C to +70°C (-4° F to +158° F) | |
| Storage Temperature Range (24h) | -25°C to 75°C (-13°F to 167°F) | |
| Storage Temperature Range (long periods) | -25°C to 55°C (-13°F to 131°F) | |
| Relative Humidity | max. 95% without condensation | |
| Weight | 1250 g | |
| Dimensions | 245 x 160 x 80mm | |
| Tether Connector | Yes (M12 Connector) | |
| Associated Transmitters (400-900 MHz) | Ikargo2, T70/2, T70/2 HALL, IK2, IK3, IK4 | |
| Associated Transmitters (2.4 GHz) | Ikore, IkoreB, Ikompact, IK2, IK3, IK4 | |
| Additional Outputs | | |
| | 8 ON/OFF or 2 (PWM or Voltage) or (20 ON/OFF or 5 Analog Inputs) | |

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