

The MIDI & MIDI Extended transmitters



The Datek MIDI series – Product benefits

- Two-way communication with feedback to a graphic display and LEDs
- Can be customised for a wide range of applications and according to preference
- Ergonomic joysticks made of tempered steel with superior durability
- The use of a unique digital protocol and verification by double processors ensures safety
- Designed for challenging environments and reliable operation. The transmitter complies with protection class IP65 and can withstand chemicals, cold, heat and humidity
- Backwards compatibility makes it possible to use the MIDI series in place of previous transmitter models



The Datek MIDI series has been designed for safe radio remote control in demanding industrial environments. It is suitable for everything from standard applications to advanced specialised equipment. Choose either the MIDI or the larger MIDI Extended, depending on the number of functions required.

Flexible and user-friendly

The front panel of the transmitter can be adapted according to the application and user preferences by choosing appropriate joysticks and switches. The front panel is laser-engraved with the customer's preferred symbols, texts and logos. Feedback information from the receiver to the transmitter is shown on a graphic display and/or LEDs. The housing, which is made of impact-resistant plastic, is ergonomically designed with sturdy handles, and the top part is available in black, red or blue.

Convenient online programming

This versatile transmitter can be programmed and calibrated online to ensure optimal control of proportional functions. Calibrated values, such as initial, maximum and micro speeds, are stored in three different memory banks. By means of a toggle switch, the operator can access these memory banks to select a particular setting or suitable operating properties.

Panel design – Choose the layout, controls, symbols and text
With Datek you can have your very own panel design. You choose the type and number of joysticks, switches and indicators you require. We will engrave your own text and symbols on the panel. You can also select the colour and have your own logo on the transmitter to match your corporate identity.

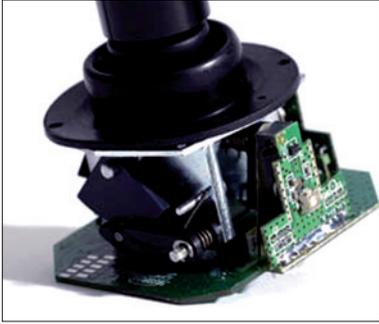
Safe multiple operation

Multiple-receiver operation means that one transmitter can take control of up to three receivers at the same time. This makes it easy to handle simultaneous lifting, for instance. Multiple-transmitter operation means that the control can be shifted between three transmitters. Handovers may be appropriate in the case of long transfers where the view is blocked. Datek's multiple operation ensures that only one transmitter at a time can have control of the receiver. Operators have to make an active choice to transfer the control, by either relinquishing control or taking control.

Two-way communication

Information can be sent back to the transmitter on the same frequency as the control commands to the receiver, by using semi-duplex technology. The information is presented on a graphic display and/or LEDs. Images, text and figures are shown on the display in a flexible format and sequence.

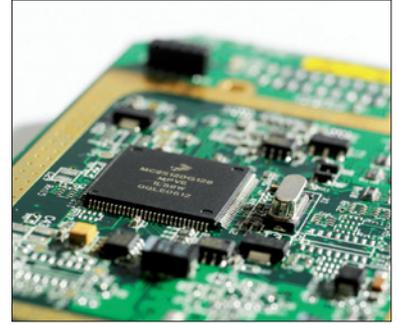




Robust and ergonomically designed joysticks made of tempered steel with low static stress on joints.



Encapsulated circuit board. The electronics are hermetically sealed and protected against all outside influences.



Sophisticated technology and software provide superior safety.



A flexible graphic display provides excellent feedback to the user.



Activation of the stop button puts the system in a safe stop mode within 0.5 seconds.



The case is impact resistant and can withstand UV light, chemicals, heat, cold and humidity. The ergonomic design makes it comfortable and easy to keep hold of even when using working gloves.

Comprehensive safety

The transmitter is equipped with a built-in start control, preventing startup in the event of safety-critical errors. LED indicators and audible signals inform the user as to what has caused the error. The transmitter continuously sends information to the receiver using a digitally verified protocol unique to Datek. In the event of even the smallest error arising, the receiver will immediately (<0.5 seconds) revert to a safe stop mode. Each Datek transmitter is assigned a unique ID code, ensuring that any given transmitter can only activate its own dedicated receiver. No other transmitter or product can ever activate a Datek system.

Robust, ergonomic joysticks

Datek's joysticks are supplied with well-defined neutral positions and speed steps, or are designed for proportional control (128 levels for proportional control). The joysticks are made of tempered steel, ensuring superior durability and quality. The design gives a low static resistance, preventing wear and tear on joints. The joysticks come in many different designs to suit different types of applications as well as the operators' individual preferences.

The D2801 MIDI Extended

The MIDI Extended has the same basic functions as the MIDI, but the transmitter has a larger housing, with space for more joysticks, paddles and switches. The enlarged panel has plenty of room for controls, symbols and text, and has space for up to three joysticks, seven paddles and also a large number of toggle switches and LEDs. The MIDI Extended can handle up to 60 control functions simultaneously, and a powerful battery provides up to 30 hours of continuous operation.

Backwards compatibility

The MIDI series is backwards compatible and can substitute for all of Datek's previous transmitter models. This makes it possible to update an older system using a new transmitter without making modifications to the radio receiver and relay cabinet. Datek products are generally backwards compatible in terms of both hardware and software, so that we can provide the best possible service.





D2801 MIDI

General information

Dimensions	120 x 280 x 150 mm
Weight	1.0 – 1.5 kg with battery
Temperature range	-25° – 70°C
Protection class	IP65

Radio transmission

Frequency	406 – 472 MHz
Output power	1 – 100 mW (standard 10 mW)
Range	>100 m

Cable control

Technology	2-wire
Length	≤200 metres (standard 10 m)

Power supply

Battery	4.8 VDC NiMH
Effective operating time	<14 hours continuous operation
Charging time	2.5 hours

Control functions

Proportional functions	8
Digital functions	16

Feedback

Technology	semi-duplex
Graphic display	128 x 64 pixels / 60 x 30 mm
LEDs	16

Joysticks

Number	0 – 2
Axis	Y, X/Y, X/Y/Z
Speed steps	1, 2, 3, 4, 5, 6 or proportional



D2801 MIDI Extended

General information

Dimensions	140 x 340 x 160 mm
Weight	1.7 – 2.5 kg with battery
Temperature range	-25° – 70°C
Protection class	IP65

Radio transmission

Frequency	406 – 472 MHz
Output power	1 – 100 mW (standard 10 mW)
Range	>100 m

Cable control

Technology	2-wire
Length	≤200 metres (standard 10 m)

Power supply

Battery	7.2 VDC NiMH
Effective operating time	<30 hours continuous operation
Charging time	2.5 hours

Control functions

Proportional functions	8
Digital functions	52

Feedback

Technology	semi-duplex
Graphic display	128 x 64 pixels / 60 x 30 mm
LEDs	16

Joysticks

Number	0 – 3
Axis	Y, X/Y, X/Y/Z
Speed steps	1, 2, 3, 4, 5, 6 or proportional

Further information

For more information about our radio systems, please visit our website at www.datek.net or call us on +46 8 534 101 50. We will be glad to help you.