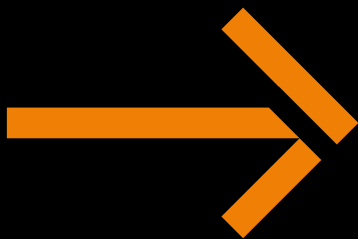


# Remotus

Robust and safe radio remote control for industrial applications







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Åkerströms' robust solutions for industrial and mobile radio remote control are reference for professional users worldwide. The experience and expertise we have developed for more than a century is in reality the difference between uptime and downtime and between incidents and accidents.

Furthermore, we know that collaborations in all their forms are the key to breakthrough innovations. We offer this to every customer, regardless of size, industry or area of use, and are a bridge to long and loyal relationships.

This brochure contains information about our radio remote control for safety-critical industrial applications: Remotus



**Remotus Jupiter** is our range of durable, modular products that we stock in various configurations and can also be adapted to most industrial cranes on the market. The system has a wide variety of pre-programmed selections and works on the general frequency bands, so users can easily install and start up the system.

The Remotus Jupiter line has many different transmitters to choose from depending on usage area. The waist transmitters have a rugged design and rubberized handles for a good grip and they also stand firmly on their protective metal feet when not in use. The handheld transmitters are ergonomic, lightweight and easy to carry. They include a clear display, and LEDs near each button that indicate the selected function.

### Dual CPUs for superior safety

The Jupiter Era waist transmitters have dual CPUs, which means superior safety, even with movements/functions. They have an active stop function, which means the receiver will stop in less than 100 ms. The waist transmitter has a built-in tilt function, means it stops if you fall. The system uses the general frequency band at 433-434 MHz. An user can maneuver several objects from the same transmitter (multi-crane operation), and several users can maneuver one object from several transmitters (multi-operator operation). A duplex function enables data transmission back to the transmitter.

### Configurable display with alarm function

The Jupiter Era waist transmitters have a large, clear display that is easy to read, even in bright sunlight. The transmitters have a vibrator and buzzer, which can be individually configured to different alarm

events via the display menu. The display's backlighting can also shift to red with different alarms that can be chosen from the menu. The waist transmitters has an unique battery solution where the battery is well protected from water and dust in a replaceable module whose opening is located directly below the transmitter. The transmitter can be placed in deep water without affecting the battery.

### Easily configured and functional

Configuration of button functions, frequency, shutdown time, and permanent/temporary functions is done from the pushbuttons or display. The waist transmitters can also be configured via our proprietary configuration tool. A configuration information module (CIM) card stores the transmitter's configuration. The transmitter's configuration can thereby be easily moved to another transmitter. The CIM card is secured during operation but is easily accessible for service.

The safety stop function in the Remotus Jupiter line is certified according to PL d, Cat 3, EN ISO 13849-1.



**REMOTUS JUPITER**

Remotus Jupiter is our standardized remote-control product line developed for most of today's industrial cranes and overhead cranes.

## REMOTUS

### Jupiter Era – Waist transmitters

Jupiter Era waist transmitters are easy to use and have a well-thought-out, robust design. The transmitters are equipped with rubberized handles for optimum grip, and when the transmitter is not in use it stands firmly on its metal feet. The transmitters are available in several variants, from simpler versions that handle three movements at two speeds to more complex versions that handle more movements and functions. The transmitters come standard with a graphic display and a built-in vibrator and buzzer that can be configured for different alarm events. The graphical display has a simple setup menu for setting the selected values. The transmitters are supplied with stickers to match selected functions.

#### REMOTUS Jupiter Era 100

<b>No. of functions:</b> Three movements at two speeds and two extra functions	<b>Antenna:</b> Internal
<b>Type of transmission:</b> FM GMSK	<b>Battery:</b> 3.7 V / 1.9 Ah
<b>Transmission speed:</b> 9 600 baud	<b>Operating time:</b> about 14 hours
<b>Ambient temperature:</b> -25°C to +55°C	<b>Protection class:</b> IP65-67
<b>Radio frequencies:</b> 433-434 MHz	<b>Dimensions:</b> 260 x 165 x 150 mm
<b>Output power:</b> 10 mW	<b>Weight:</b> 1.3 kg
<b>Range:</b> Up to 200 m	<b>Display type:</b> Graphic LCD, 128x64 pixels
<b>Art.no. Jupiter Era 100:</b> 953949-000	



#### REMOTUS Jupiter Era 150

<b>No. of functions:</b> Three movements at two speeds and five extra functions	<b>Antenna:</b> Internal
<b>Type of transmission:</b> FM GMSK	<b>Battery:</b> 3.7 V / 1.9 Ah
<b>Transmission speed:</b> 9 600 baud	<b>Operating time:</b> about 14 hours
<b>Ambient temperature:</b> -25°C to +55°C	<b>Protection class:</b> IP65-67
<b>Radio frequencies:</b> 433-434 MHz	<b>Dimensions:</b> 260 x 165 x 150 mm
<b>Output power:</b> 10 mW	<b>Weight:</b> 1.3 kg
<b>Range:</b> Up to 200 m	<b>Display type:</b> Graphic LCD, 128x64 pixels
<b>Art.no. Jupiter Era 150J:</b> 953950-000	





## REMOTUS Jupiter Era 100 Configurable

**No. of functions:**

Four movements at four speeds and five extra functions

**Type of transmission:**

FM GMSK

**Transmission speed:**

9 600 baud

**Ambient temperature:**

-25°C to +55°C

**Radio frequencies:**

433-434 MHz

**Output power:**

10 mW

**Range:**

Up to 200 m

**Antenna:**

Internal

**Battery:**

3.7 V / 1.9 Ah

**Operating time:**

about 14 hours

**Protection class:**

IP65-67

**Dimensions:**

260 x 165 x 150 mm

**Weight:**

1,3 kg

**Display type:**

Graphic LCD,  
128x64 pixels



**Art.no. Jupiter Era 100 Configurable:**  
Customer unique



## Jupiter Era – Handheld transmitters

Jupiter Era handheld transmitters comes in a robust and ergonomic design. The transmitters weigh only 265 grams and fit easily in your hand. They are IP67 classified, which means they are completely dust and waterproof. They have large, easy-to-read two-stage buttons that enable double functions on each pushbutton. Graphical LCD is standard and LEDs at each button indicates the selected function. A separate LED indicates storage battery status and operation. The transmitters are supplied with stickers to match selected functions.

### REMOTUS Jupiter Era 8B\*

<b>No. of functions:</b> Three movements at two speeds and two extra functions	<b>Battery:</b> 3.7 V / 1.9 Ah
<b>Type of transmission:</b> FM GMSK	<b>Operating time:</b> about 40 hours
<b>Transmission speed:</b> 9 600 baud	<b>Protection class:</b> IP67
<b>Ambient temperature:</b> -25°C to +55°C	<b>Dimensions:</b> 183 x 67 x 45 mm
<b>Radio frequencies:</b> 433-434 MHz	<b>Weight:</b> 265 g
<b>Output power:</b> 10 mW	<b>Display type:</b> Graphic, 128x64 pixels. Up to four numerical values with unit can be displayed simultaneously. The values can be displayed numerically or as bars.
<b>Antenna:</b> Internal	
<b>Art.no. Jupiter Era 8B:</b> 953948-000	



\*Additional functions can be enabled via shift-function. Settings via display menu.

### REMOTUS Jupiter Era 6B

<b>No. of functions:</b> Two movements at two speeds and two extra functions	<b>Battery:</b> 3.7 V / 1.9 Ah
<b>Type of transmission:</b> FM GMSK	<b>Operating time:</b> about 40 hours
<b>Transmission speed:</b> 9 600 baud	<b>Protection class:</b> IP67
<b>Ambient temperature:</b> -25°C to +55°C	<b>Dimensions:</b> 183 x 67 x 45 mm
<b>Radio frequencies:</b> 433-434 MHz	<b>Weight:</b> 265 g
<b>Output power:</b> 10 mW	<b>Display type:</b> Graphic, 128x64 pixels. Up to four numerical values with unit can be displayed simultaneously. The values can be displayed numerically or as bars.
<b>Antenna:</b> Internal	
<b>Art.no. Jupiter Era 6B:</b> 954125-000	



## REMOTUS Jupiter Era 4B

**No. of functions:**

One movement at two speeds and two extra functions

**Battery:**  
3.7 V / 1.9 Ah

**Type of transmission:**  
FM GMSK

**Operating time:**  
about 40 hours

**Transmission speed:**  
9 600 baud

**Protection class:**  
IP67

**Ambient temperature:**  
-25°C to +55°C

**Dimensions:**  
183 x 67 x 45 mm

**Radio frequencies:**  
433-434 MHz

**Weight:**  
265 g

**Output power:**  
10 mW

**Display type:**  
Graphic, 128x64 pixels. Up to four numerical values with unit can be displayed simultaneously. The values can be displayed numerically or as bars.

**Antenna:**  
Internal

**Art.no. Jupiter Era 4B:**  
954124-000



\*Nordic symbols      \*DIN symbols  
↑ □ ○ □      ▼ ▲



REMOTUS ERA JUPITER 8B

## Jupiter – Handheld transmitters

Jupiter hand held transmitters are developed for indoor and outdoor use. The transmitters are robust and designed with large, clearly visible and rugged buttons. A protective rubber bumper makes them extra shock resistant. Jupiter 10BD has 10 two-stage buttons that enable double functions for each pushbutton. The transmitter comes standard with a graphic display and has a trolley selection function. LEDs at each button indicate selected function and a separate LED indicates storage battery status and operation. The transmitter is supplied with stickers to match selected functions.

### REMOTUS Jupiter 10BD

<p><b>No. of functions:</b> Three movements at two speeds and trolley selection</p>	<p><b>Battery:</b> 3.7 V / 1.9 Ah</p>
<p><b>Type of transmission:</b> FM GMSK</p>	<p><b>Operating time:</b> about 13 hours</p>
<p><b>Transmission speed:</b> 9 600 baud</p>	<p><b>Protection class:</b> IP65</p>
<p><b>Ambient temperature:</b> -25°C to +55°C</p>	<p><b>Dimensions:</b> 243 x 77 x 41 mm</p>
<p><b>Radio frequencies:</b> 433-434 MHz</p>	<p><b>Weight:</b> 520 g</p>
<p><b>Output power:</b> 10 mW (433-434 MHz)</p>	<p><b>Display type:</b> Graphic, 102x64 pixels. Up to four numerical values with unit can be displayed simultaneously. The values can be displayed numerically or as bars.</p>
<p><b>Antenna:</b> Internal</p>	
<p><b>Art.no. Jupiter 10BD :</b> 954286-000</p>	





## REMOTUS

### Jupiter – Receivers

The Jupiter receivers are pre-programmed with a wide variety of application programs. RX110 has 11 outputs and handles three movements at two speeds. RX161 has 16 outputs as a standard and can be extended with additional 16 for more functions. They are easy to install and start up. Configurations and settings are easily made with our proprietary configuration tool (for RX161). RX161 has an analogue input for reading selected values, for example, in a display. The selected values are formatted using the configuration tool. The receivers have dual processors that monitor each other, so a message is checked before the relay function goes out into the receiver. Command errors don't occur and safety increases. Siren is optional.

#### REMOTUS Jupiter RX110

**No. of outputs:**

11 outputs; 4 changeover and 7 open contacts of which 1 safety relays

**Outputs for emergency stop:**

2 safety relays; 2 changeover contacts

**Radio frequencies:**

433-434 MHz

**Power consumption:**

max 12 VA

**Ambient temperature:**

-25°C to +55°C

**Art.no. Jupiter RX110:**

959083-433

**Casing:**

Flameproof plastic (UL 94 5VA)

**Protection class:**

IP67

**Dimensions:**

277 x 217 x 115 mm

**Weight:**

1.5 kg

**Connection voltage:**

24/48/115/230 V AC or 24 V DC



#### REMOTUS Jupiter RX161

**No. of outputs:**

16 + 16 outputs; 4 changeover and 12 open contacts of which 6 safety relays

**Outputs for emergency stop:**

2 safety relays; 2 changeover contacts

**Number of inputs:**

1 analogue input  
0(4)-20 mA or 0(2)-10 V  
1 serial input: RS422/RS485  
2 opto isolated digital inputs for 24/48 V AC/DC, 115 V AC or 230 V AC 50/60 Hz

**Radio frequencies:**

433-434 MHz

**Art.no. Jupiter RX161 incl. siren:**

953951-000

**Art.no. Jupiter RX161+16:**

Customer unique

**Power consumption:**

max 12 VA

**Ambient temperature:**

-25°C to +55°C

**Casing:**

Flameproof plastic (UL 94 5VA)

**Protection class:**

IP67

**Dimensions:**

277 x 217 x 115 mm

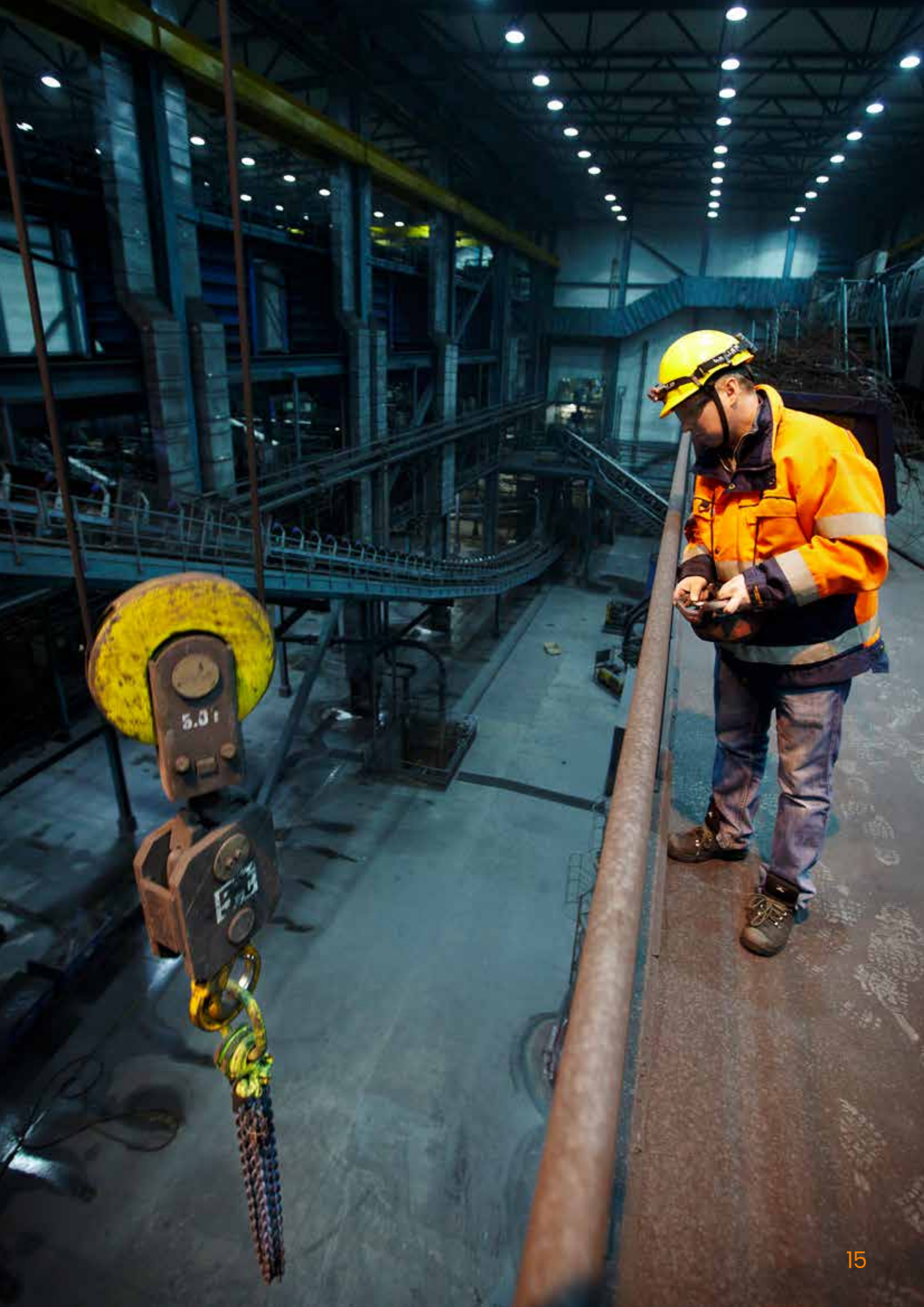
**Weight:**

1.5 kg

**Connection voltage:**

24/48/115/230 V AC or 24 V DC





**Remotus Mercury** is our robust, customized remote control product line for industrial cranes and overhead cranes, for use in industries such as manufacturing, steel works, mines, and processing.

The Remotus Mercury line is constructed to provide the safety and reliability required for wireless remote control in demanding industrial environments. The products in the Mercury line are tailored to the customer's wishes, with customized functions and layout. A variety of actuators are available.

### Remotus Mercury Era

The Mercury Era 100 waist transmitter has a modern, rugged design. It has rubberized handles for a good grip and stands firmly on its protective metal feet when not in use. The Mercury Era 8B handheld transmitter has eight buttons, a modern, ergonomic design, clear display, and LEDs near each button that indicate the selected function. Mercury Era 8 can be equipped with customized symbols and is very easy to carry.

### Dual CPUs for superior safety

The Mercury Era 100 has dual CPUs, which means superior safety, even with movements/functions. It has an active stop function, which means the receiver will stop in less than 100 ms. It has a built-in tilt function - if you fall and the transmitter is tilted into a pre-programmed angle, it stops immediately. Mercury uses the frequency band 433-434 MHz, and also licensed/unlicensed frequency channels on the 400 MHz band. There are several functions for automatically connecting transmitter and receiver on an available frequency and for sharing the same

frequency band. A user can maneuver several objects from the same transmitter (multi-crane operation), and several users can maneuver one object from several transmitters (multi-operator operation). A duplex function enables data transmission back to the transmitter.

### Configurable display with alarm function and a unique battery solution

The Mercury Era 100 has a large, clear display that is easy to read even in bright sunlight. It has a vibrator and buzzer, which can be individually configured to different alarm events via the display menu. The display's backlighting can shift to red with different alarms. The transmitter has a unique battery solution where the battery is well protected from water and dust in a replaceable module whose opening is located directly below the transmitter. The transmitter can be placed in deep water without affecting the battery.

### Portable configuration

A configuration information module (CIM) card stores the transmitter's configuration, and can easily be moved to another transmitter. The CIM card is secured during operation but is easily accessible for service.

The safety stop function in the Remotus Mercury line is approved according to PL d, Cat 3, EN ISO 13849-1.



# REMOTUS MERCURY 500



## REMOTUS MERCURY

Remotus Mercury is our customized remote-control product line for industrial cranes and overhead cranes.

## REMOTUS

### Mercury — Waist transmitters

Remotus Mercury waist transmitters are built to handle everything from standard solutions to highly sophisticated machine control. They are available in three basic designs that can be customized to fit the needs of the customer. The transmitters are built to tolerate tough conditions, including impacts, drastic temperature fluctuations, dust, oil, and humidity. The waist transmitters can be equipped with up to four joysticks that can control up to eight movements. They can also be equipped with indicators and a display for showing different types of information from the crane via the duplex function. The article numbers for Mercury waist transmitters are customer specific.

#### REMOTUS Mercury Era 100

**No. of functions:**

Up to six movements, 2-position, 4-position, or stepless joystick (max two joysticks)

**Type of transmission:**

FM FSK/FM GMSK

**Transmission speed:**

4,800–19,200 baud depending on choice of radio

**Ambient temperature:**

-25°C to +55°C

**Radio frequencies:**

400 MHz, 433–434 MHz

**Output power:**

Varies depending on application and licensing limitations. Usually 10 to 400 mW.

**Range:**

Up to 1000 m

**Antenna:**

Internal

**Battery:**

3.7 V / 1.9 Ah

**Operating time:**

about 14 hours

**Protection class:**

IP65–67

**Dimensions:**

260 x 165 x 150 mm

**Weight:**

1.3 kg

**Display type:**

Graphic LCD, 128x64 pixels



#### REMOTUS Mercury 100

**No. of functions:**

Up to six movements, 2-position, 4-position, or stepless joystick (max two joysticks)

**Type of transmission:**

FM FSK/FM GMSK

**Transmission speed:**

4,800–19,200 baud depending on choice of radio

**Ambient temperature:**

-25°C to +55°C

**Radio frequencies:**

400 MHz, 433–434 MHz

**Output power:**

Varies depending on application and licensing limitations. Usually 10 to 400 mW.

**Range:**

Up to 1000 m

**Antenna:**

Internal

**Battery:**

7.2 V / 1.0 Ah

**Operating time:**

about 10 hours

**Dimensions:**

230 x 155 x 135 mm

**Weight:**

1.2 kg

**Display type:**

LCD, 1 row 8 characters, 1–3 rows 16 characters/row



## REMOTUS Mercury 300

**No. of functions:**

Up to six movements, 2-position, 4-position, or stepless joystick (max three joysticks)

**Type of transmission:**

FM FSK/FM GMSK

**Transmission speed:**

4,800–19,200 baud depending on choice of radio

**Ambient temperature:**

–25°C to +55°C

**Radio frequencies:**

400 MHz, 433–434 MHz

**Output power:**

Varies depending on application and licensing limitations. Usually 10 to 400 mW.

**Range:**

Up to 1 000 m

**Antenna:**

Internal

**Battery:**

6 V / 2.4 Ah

**Operating time:**

about 10 hours

**Dimensions:**

250 x 175 x 160 mm

**Weight:**

1.2 kg

**Display type:**

LCD, 1 row 8 characters, 1–3 rows 16 characters/row, 8 LEDs



## REMOTUS Mercury 500

**No. of functions:**

Up to eight movements, 2-position, 4-position or stepless joystick (max four joysticks)

**Type of transmission:**

FM FSK/FM GMSK

**Transmission speed:**

4,800–19,200 baud depending on choice of radio

**Ambient temperature:**

–25°C to +55°C

**Radio frequencies:**

400 MHz, 433–434 MHz

**Output power:**

Varies depending on application and licensing limitations. Usually 10 to 400 mW.

**Range:**

Up to 1 000 m

**Antenna:**

Internal

**Battery:**

6 V / 2.4 Ah

**Operating time:**

about 10 hours

**Dimensions:**

340 x 175 x 160 mm

**Weight:**

2.5 kg

**Display type:**

LCD, 1 row 8 characters, 1–3 rows 16 characters/row, 8 LEDs



## Mercury – Handheld transmitters

Mercury handheld transmitters are made for indoor and outdoor use. The transmitters are robust and designed with large, clearly visible, durable two-stage buttons, providing dual functions on each pushbutton. The Mercury Era 8B is a flexible and light transmitter, weighs only 265 grams. The transmitters are available with customer-specific symbols. LEDs on each button indicate the selected function and a separate LED indicates storage battery status and operation. The Mercury Era 8B comes standard with a graphic display, Mercury 10B and 12B are available incl/excl display.

### REMOTUS Mercury Era 8B

<b>No. of buttons:</b> 8 two-stage buttons	<b>Battery:</b> 3.7 V / 1.9 Ah
<b>Type of transmission:</b> FM GMSK	<b>Operating time:</b> about 40 hours
<b>Transmission speed:</b> 9 600 baud	<b>Protection class:</b> IP67
<b>Ambient temperature:</b> -25°C to +55°C	<b>Dimensions:</b> 183 x 67 x 45 mm
<b>Radio frequencies:</b> 433-434 MHz	<b>Weight:</b> 265 g
<b>Output power:</b> 10 mW	<b>Display type:</b> Graphic, 128x64 pixels. Up to four numerical values with unit can be displayed simultaneously. The values can be displayed numerically or as bars.
<b>Antenna:</b> Internal	



### REMOTUS Mercury 8B

<b>No. of buttons:</b> 8 two-stage buttons	<b>Antenna:</b> Internal
<b>Type of transmission:</b> FM FSK/FM GMSK	<b>Battery:</b> 3.7 V / 1.9 Ah
<b>Transmission speed:</b> 4,800-19,200 baud depending on choice of radio	<b>Operating time:</b> about 13 hours
<b>Ambient temperature:</b> -25°C to +55°C	<b>Protection class:</b> IP65
<b>Radio frequencies:</b> 400 MHz, 433-434 MHz	<b>Dimensions:</b> 243 x 77 x 41 mm
<b>Output power:</b> 10 to 400 mW	<b>Weight:</b> 510 g



## REMOTUS Mercury 10B

**No. of buttons:**  
10 two-stage buttons

**Type of transmission:**  
FM FSK/FM GMSK

**Transmission speed:**  
4,800-19,200 baud depending  
on choice of radio

**Ambient temperature:**  
-25°C to +55°C

**Radio frequencies:**  
400 MHz, 433-434 MHz

**Output power:**  
10 to 400 mW

**Antenna:**  
Internal

**Battery:**  
3.7 V / 1.9 Ah

**Operating time:**  
about 13 hours

**Protection class:**  
IP65

**Dimensions:**  
243 x 77 x 41 mm

**Weight:**  
520 g

**Display type:**  
Graphic, 102x64 pixels. Up to  
four numerical values with unit  
can be displayed simultaneous-  
ly. The values can be displayed  
numerically or as bars.



## REMOTUS Mercury 12B

**No. of buttons:**  
12 two-stage buttons

**Type of transmission:**  
FM FSK/FM GMSK

**Transmission speed:**  
4,800-19,200 baud depending  
on choice of radio

**Ambient temperature:**  
-25°C to +55°C

**Radio frequencies:**  
400 MHz, 433-434 MHz

**Output power:**  
10 to 400 mW

**Antenna:**  
Internal

**Battery:**  
3.7 V / 1.9 Ah

**Operating time:**  
about 13 hours

**Protection class:**  
IP65

**Dimensions:**  
243 x 77 x 41 mm

**Weight:**  
490 g

**Display type:**  
Graphic, 102x64 pixels. Up to  
four numerical values with unit  
can be displayed simultaneous-  
ly. The values can be displayed  
numerically or as bars.



## Mercury – Control devices

The Mercury systems are tailored to customers' requirements. Functions, frequencies, design, and layout are all customized. Text and symbols are adapted and a large number of control devices are available i.e. joysticks, pushbuttons, rotary switches, toggle switches etc. Remotus Mercury waist transmitters are equipped with two to four joysticks for controlling up to eight movements. They can also be equipped with indicators and a display for showing different types of information from the crane via the duplex function. Such information could be the weight of the load, wind conditions, etc.

### Example of control devices

#### Joysticks

Incl. steps/step less, button, 1, 2, 3 axis



#### Push buttons

Different colors, sizes, leds, locking/non-locking



#### LEDs

Different colors, high-power



#### Toggle switches

Locking/non-locking



#### Rotary switches

4, 8, 10, 12, 16 pos, potentiometer



#### Key switches





## REMOTUS

### Mercury — Receivers

Remotus Mercury receivers are modular and flexible so they can be customized to each customer's specific needs. The line consists of three basic models that can be expanded using several specially designed expansion cards for various applications, and a receiver for controlling existing PLCs. The receivers have dual safety relays for controlling the line circuit breaker and very secure radio transmissions.

#### REMOTUS Mercury RX161

**No. of outputs:**

16 outputs; 4 changeover and 12 open contacts of which 6 safety relays

**Outputs for emergency stop:**

2 safety relays; 2 changeover contacts

**Number of inputs:**

1 analogue input  
0(4)-20 mA or 0/2-10 V  
1 serial input: RS422/RS485  
2 opto isolated digital inputs for 24/48 V AC/DC, 115 V AC or 230 V AC 50/60 Hz

**Radio frequencies:**

400 MHz, 433-434 MHz

**Expansion slots:**

1 extra relay card incl 16 relays, of which 4 changeover

**Ambient temperature:**

-25°C to +55°C

**Casing:**

Flameproof plastic (UL 94 5VA)

**Protection class:**

IP67

**Dimensions:**

277 x 217 x 115 mm

**Weight:**

1.5 kg

**Connection voltage:**

24/48/115/230 V AC or 24 V DC



#### REMOTUS Mercury RX161

**No. of outputs:**

16 outputs; 4 changeover and 12 open contacts of which 6 safety relays

**Outputs for emergency stop:**

2 safety relays; 2 changeover contacts

**Number of inputs:**

1 analogue input  
0(4)-20 mA or 0/2-10 V  
1 serial input: RS422/RS485  
2 opto isolated digital inputs for 24/48 V AC/DC, 115 V AC or 230 V AC 50/60 Hz

**Radio frequencies:**

400 MHz, 433-434 MHz

**Expansion slots:**

1 extra relay card incl 16 relays, of which 4 changeover

**Ambient temperature:**

-25°C to +55°C

**Casing:**

Powder coated sheet metal

**Dimensions:**

300 x 200 x 122 mm excluding attachments and connectors

**Weight:**

5 kg

**Connection voltage:**

24/48/115/230 V AC or 24 V DC





## REMOTUS Mercury RX182

### No. of outputs:

18 independent relays with changeover contacts and line circuit breaker start and hold with monitoring safety relays. 2 serial COM ports.

### Radio frequencies:

400 MHz, 433-434 MHz

### Relädata:

250 V AC, 8 A

### Expansion slots:

2

### Ambient temperature:

-25°C to +55°C

### Casing:

Powder coated sheet metal

### Dimensions:

335 x 250 x 160 mm excluding attachments and connectors

### Weight:

8 kg

### Connection voltage:

24/48 or 115/230 + 15-20 % V AC or 15-35 V DC



## REMOTUS Mercury RXS96

### Radio frequencies:

433-434 MHz bands or licensed frequency bands on request

### MC relay data:

250 V AC, 8 A

### PROFIBUS DP slave:

16 bytes out/in (consistent data)

### PROFINET I/O slave:

16 bytes out/in (consistent data)

### Ambient temperature:

-25°C to +55°C

### Casing:

Aluminium profile for screw mounting or mounting on DIN rail

### Dimensions:

165 x 105 x 150 mm excluding attachments and connectors

### Weight:

1.8 kg



## REMOTUS

### Mercury — Expansion options

Remotus Mercury receivers can be expanded using several specially designed expansion cards for various applications. The receivers have a standard 16–18 relay outputs that can easily be expanded for up to 50 functions.

#### REMOTUS Mercury RX161

EXP. BOARD 16 RELAYS

Art. no. 950868-000

#### REMOTUS Mercury RX182

EXP. BOARD 3 DIGITAL 230 V AC

EXP. BOARD 8 DIGITAL 230 V AC

EXP. BOARD 3 ANALOGUE

EXP. BOARD 3 HYDR.V. 0-1.5A

EXP. BOARD 3 ANALOGUE

EXP. BOARD 3 RELAYS

EXP. BOARD 8 RELAYS

EXP. BOARD 16 RELAYS

Art. no. 927169-000

Art. no. 935525-000

Art. no. 930527-000

Art. no. 934107-000

Art. no. 925276-000

Art. no. 926293-000

Art. no. 934122-000

Art. no. 935025-000



## System examples

Remotus systems are very user-friendly and customizable. It is possible to maneuver several objects from the same transmitter (multi-crane operation), which makes it easier when for example you need to lift multiple objects simultaneously. It is also possible to maneuver the same object from several transmitters (multi-operator operation). An advantage if you want to control, for example, an object where you have no oversight over the driving distance. You can therefore hand over the control between two transmitters. Remotus systems are secure and reliable, so you can always ensure by active choice that only one transmitter is in control of each object at a time.

### MULTI-CRANE OPERATION



### MULTI-OPERATOR OPERATION



Access\_Ctrl is the name of our connected services for access management and the logging of production data. The service offers increased control and safety for those working in industrial applications and complements Åkerströms' robust and secure radio control systems.

Access control provides safety and control around the handling of radio controlled processes, minimising costly production downtimes and personal injury.

### Full control

The administrator can easily see which users are logged on and using the crane and at what times. The system also features a complete log that can display invalid logins and who has attempted to access the crane. Access\_Ctrl also shows if any crane goes offline. This gives you greater confidence, knowing that only authorised personnel can activate the radio control system and operate the crane.

### Predictive maintenance

It is also possible to input start and stop times for access to specific cranes. All data is stored in the cloud, with secure access at any time and for any period. You can also select precise figures for how much to lift, which vibrations are present, how fast the crane is operated or by how much the crane is unbalanced. This makes it easier for you to calculate the maintenance requirements and service life of cranes and machines.

### Daily inspection

The daily inspection of a crane or machine is the basis for detecting errors and deficiencies before larger, more costly errors occur. Access\_Ctrl ensures that the daily control is performed and reported.

### Existing tags

Access to the cranes is managed with any Mifare RFID tag. You can use existing tags

that are already in use in the business, for example ID06, making it easier for you to manage and reducing unnecessary administration.

### Minimise accidents and injuries

The human factor is a contributing cause of stoppages and accidents. Not having full control over how heavy industrial cranes are handled and by whom is a contributing factor in causing personal injury and damaged goods. Access\_Ctrl helps you minimise accidents and injuries in your workplace. It helps managers, operators and administrators to improve production efficiency, manage the necessary permits and increase personal safety. It also enables you to make major cost savings and enhance profitability. And it's easy to manage thanks to the clear web interface.

### Increase safety and security

In industries where heavy lifting and critical processes are carried out on a daily basis, personal and production safety is paramount. Operators must be able to perform their job as safely as possible without the risk of injury to any other person in the room. With Access\_Ctrl, everyone can feel safe.

- **Safer and more secure working environment**
- **Fewer production stoppages**
- **Streamlined processes**
- **Cost savings and higher profitability**



AKERSTRÖMS

AKERSTRÖMS

ACCESS 556

MC BAT 90



## Carrying devices and accessories

Our carrying devices help provide a comfortable, ergonomic working position and reduce strain on the body when working long hours. We have several different carrying devices to choose from that can easily be adjusted for each user. A custom belt is included with each transmitter. We also offer a wide range of accessories and spare parts such as batteries, chargers, storage cabinets, signs etc. Visit our web shop at [akerstroms.com](http://akerstroms.com) for more information, pictures, and article numbers.



### Shoulder strap

**SHOULDER STRAP**  
Era 100, J/M-100  
Art. No. 944204-000

**SHOULDER STRAP**  
M-300/500  
Art. No. 944204-001



### Harness

**HARNES**  
Era 100, J/M-100  
Art. No. 947108-000



### Belt holder

**BELT HOLDER KIT**  
J-8B/10B/12B  
Art. No. 934158-000



### Belt holder

**BELT HOLDER CLIP ON**  
Era 4/6/8B  
Art. No. 952147-000



### Protective bag

**PROTECTIVE BAG**  
J-M 8B/10B/12B  
Art. No. 951900-001



### Protective bag

**PROTECTIVE BAG**  
Era 4/6/8B  
Art. No. 951900-000



### Vehicle bracket

**VEHICLE BRACKET**  
J-M 8B/10B/12B  
Art. No. 935408-001



### Vehicle bracket

**VEHICLE BRACKET**  
Era 4/6/8B  
Art. No. 952521-000



### Wall bracket

**WALL BRACKET**  
Era 4/6/8B  
Art. No. 952148-000



### Vest

**VEST**  
Era 100, J/M-100,  
M-300/500  
Adjustable size  
Art. No. 951854-000



### Belt

**BÄLTE**  
Era 100, J/M-100  
Adjustable size  
Art. No. 952704-000



### Belt

**BÄLTE**  
M-300/500  
Adjustable size  
Art. No. 952705-000



### Belt

**BELT WITH RAIL**  
J/M-100  
700-1100 mm  
Art. No. 935537-000



### Belt

**BELT WITH FLIP-UP**  
J-M 8B/10B/12B  
Art. No. 935537-004



### Hook

**HOOK**  
M-300/500  
Art. No. 926708-000



### Hook

**HOOK**  
J/M-100  
Art. No. 925563-000

**ÅKERSTRÖMS**

→ Welcome to the remote future

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