Remotus

Robust radio remote control for safety critical industrial applications

NAME: Remotus Jupiter Era 8B.
SPECIALITY: Radio remote control
for overhead crane
READY FOR MISSION: 2014

NAME: Remotus Jupiter Era 100J.
SPECIALITY: Radio remote control
for industrial crane
READY FOR MISSION: 2014

ÅKERSTRÖMS

ROBUST SWEDISH DESIGN SINCE 1918

Remotus Jupiter is our robust standardized remote-control product line developed for most of today's industrial cranes and overhead cranes, used, for example, in manufacturing, steel works, mines, and processing industries. The system has 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. **Jupiter Era** is the name of the latest model.

Remotus Jupiter Era

Remotus Jupiter Era is the name of the latest member of the Remotus family. The Jupiter Era waist transmitters have a modern, rugged design. They have rubberized handles for a good grip and they also stand firmly on their protective metal feet when not in use. The Jupiter Era handheld transmitters have a modern, ergonomic design, clear display, and LEDs near each button that indicate the selected function. The Era models are lightweight and easy to carry.

Dual CPUs for superior safety

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, which means that it stops if you fall. The system uses the general frequency bands at 418-419 MHz, 433-434 MHz, 863-870 MHz, and 902-928 MHz. 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 Jupiter Era 100/150 have a large, clear display that is easy to read, even in bright sunlight. The transmitters also 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 Jupiter Era 90 has no display or alarm function. The waist 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.

Easily configured and functional

Configuration of button functions, frequency, shutdown time, and permanent/temporary functions is done from the pushbuttons or display. Jupiter Era waist transmitters can also be configured via our proprietary configuration tool. A configuration information module (CIM) card stores the Jupiter 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 is certified according to PL d, Cat 3, EN ISO 13849-1.

REMOTUS Jupiter 9B RS

No. of buttons:
9 two-stage buttons and a rotary switch with 4 positions

Type of transmission:
FM GMSK

Transmission speed:
9,600 baud

Ambient temperature:
-25 to +55°C

Radio frequencies:
418-419 MHz, 433-434 MHz,
863-870 MHz, 902-928 MHz

Output power:
10 mW (433-434 MHz)
5 mW (863-870 MHz)

Antenna:
Internal

Art. no.
Jupiter 9B RS Nordic*:   947821-800
Jupiter 9B RS Nordic* Display: 947822-800
Jupiter 9B RS DIN*:   947823-800
Jupiter 9B RS DIN* Display: 947824-500

Battery:
3.7 V/1.9 Ah

Operating time:
ca 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 simultaneously. The values can be displayed numerically or as bars.

Nordic symbols   *DIN symbols*

REMOTUS

Jupiter — Receivers

The Jupiter RX160 is a robust receiver pre-programmed with 16 different application programs. The receiver is easy to install and start up. Configurations and settings are easily made with our proprietary configuration tool. The receiver has a multi-transformer for universal use. It has an analogue input for reading selected values, for example, in a display. The selected values are formatted using the configuration tool. The receiver has 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. The receiver is IP67 rated and its enclosure is made of flameproof plastic. Siren is optional. The receiver is compatible with all Jupiter transmitters.

REMOTUS Jupiter RX160

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:
418-419 MHz, 433-434 MHz,
863-870 MHz, 902-928 MHz

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:
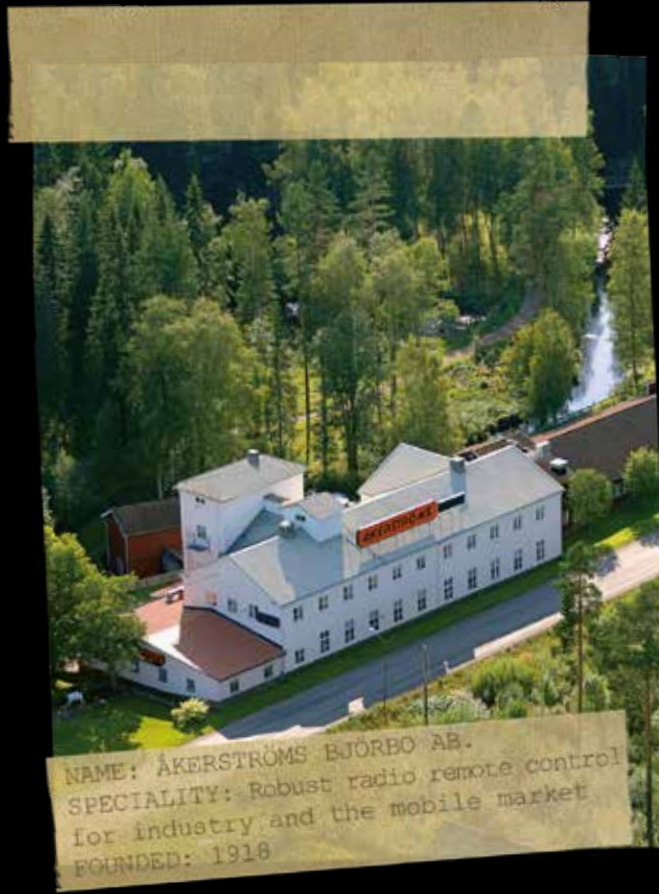1.5 kg

Connection voltage:
24/48/115/230 V AC or 24 V DC

Art. no.

Jupiter RX160	948470-800
Jupiter RX160, Siren	948470-801
Siren kit	947539-000

REMOUTS JUPITER RX160

Included with the receiver are assembly spacers for easy mounting on a flat surface.

ÅKERSTRÖMS

NAME: ÅKERSTRÖMS BJÖRBO AB.
SPECIALITY: Robust radio remote control
for industry and the mobile market
FOUNDED: 1918

Authorized Åkerströms' distributor