Made in Sweden Remotus 9000



## Remotus



Radio control system



## Remotus 9000





#### About Åkerströms...

We at Åkerströms have devoted over half our 80-year existence to remote radio controlled systems and, in recent years, also wireless data communication using advanced network solutions.

Most of the equipment is specially designed and it is all developed in-house. To stay one step ahead and offer the best products and solutions we work close to the market. We have managed to combine designers, production and service in one and the same centre so that you will always be sure of coming to the right place.

#### ...and the Remotus range

Remotus is a system for wireless remote control enabling you to control heavy, high-risk processes, for example, smoothly and easily. You stand at a safe distance but you still have a clear view of what you are controlling.

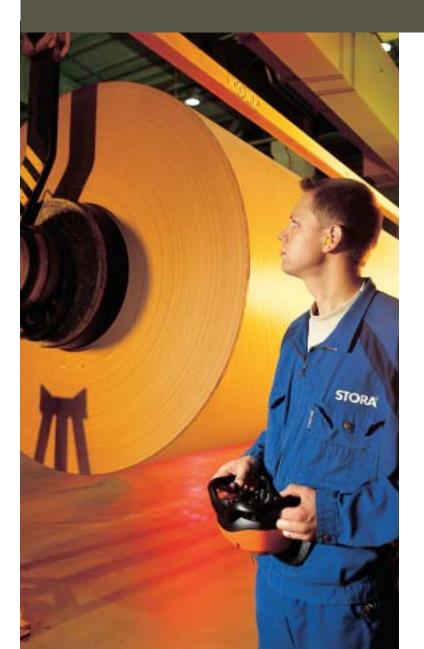
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# What functions do you wa

Remotus 9000 is based on an overall concept which combines function, user-friendliness and design. It is self-evident that locomotive control, overhead crane control and multi-crane operation impose different demands, which is why you select your own functions and accessories which best suit your business. Our task will then be to tailor your transmitter to your requirements. Our supplies always include a support device, aerial, charger, double batteries, signs and extensive documentation.

Besides offering a more flexible way of working, Remotus also gives you peace of mind as far as operational stoppages are concerned. A spare transmitter on your suspended control unit will cut in temporarily if this is needed. Our "black box", with logging, statistics and self-monitoring facilitates service work.

And we provide the support.





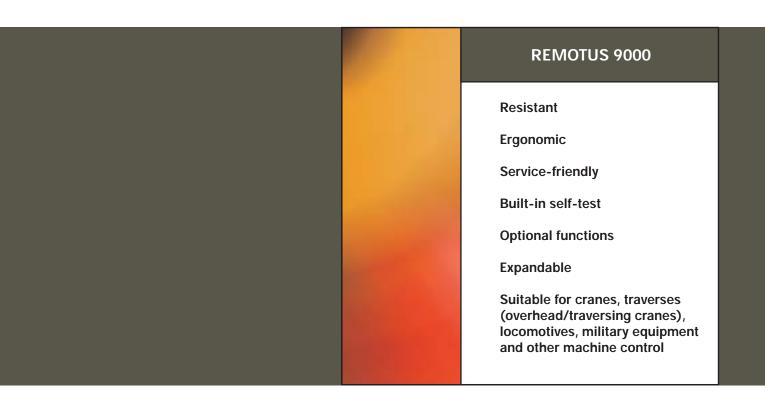








## ant?









The Remotus Euro is designed for simple, smooth handling. It is ideal for medium-sized and large applications and is capable of handling the most complicated cranes. The Remotus Euro is based on ergonomic thinking to suit both the user and service personnel. The transmitter can be provided with indications to display information from the crane.





## Remotus BC – for shorter operating passes

The Remotus BC transmitter has an ergonomic shape and you control processes easily with just a few quick presses of the finger. But it is still you who take the decisions, and you can have up to 12 pushbuttons. We distinguish between movement and all the other functions, thus six buttons control a maximum of three movements. You yourself choose whether functions will be temporary or continuous. LED's indicate the battery status, operation (on) and optional functions.





#### Remotus MC – more functions

The Remotus MC is of a classic design, the control unit being housed in a service-friendly module. Perfectly suited for complex industrial applications requiring more functions or a display unit. The high quality of the product means that it operates just as efficiently in dirty industrial environments as in rain and cold weather. A LED indicates battery status. The MC is available in a duplex version, which enables information to be obtained such as limit position, weighing machine value and position directly on the display.

## Receivers for simple and

All the receivers in the Remotus range are designed to provide the safety and reliability required for controlling equipment in demanding industrial environments. Our control systems are therefore used for cranes, traversing cranes, locomotives, ship loaders, mining and military equipment. It is important for the products to be easily served, and operation is facilitated by comprehensive data logging and tests during operation. Other features include multi-driver operation on the same frequency and the fact that information can be transmitted back to the operator.



### Small with high capacity

The Remotus CU 9600 is a small-series receiver with a very high capacity designed for users who have an existing PLC system. Digital data signals replace the traditional analogue signals, giving rise to a high information flow. Only one cable is required between the computer (PLC) and the receiver. The technology is based on a system which in principle provides you with an unlimited number of functions.

The CU 9600 has both Profibus and serial communication, which means that it can also communicate with weighing machines and position indicators. A monitor output enables statistics, settings and log function to be controlled easily with one computer. The receiver is fully compatible with the Remotus 9000 family.

Power consumption: 9 W max Supply voltage: 24 VDC (11-35 VDC) Dimensions: WxHxD 125x135x135 mm



## complex systems











#### Remotus 9000/8

8 independent relays with change over contacts in print connection.

Max. load: 6 A/240 VAC resistive load Power consumption: 9 VA max

Supply voltage: 15-35 VDC, 115/230 VAC, 48 VAC

Dimensions: HxWxD 250x180x100 mm

Stainless steel enclosure Close start function

Option: 3 analogue outputs or 3 relay outputs

#### **Remotus 9000/18**

18 independent relays with change over contacts.

Max. load: 6 A/250 VAC resistive load Power consumption: 16 VA max

Supply voltage: 15-35 VDC, 115/230 VAC, 48 VAC

Dimensions: HxWxD 320x230x135 mm

Stainless steel enclosure

Option: 2x3 analogue outputs or 2x3 relay outputs, which

can be mixed

#### **Remotus 9000/24**

24 independent relays with change over contacts.

Max. load: 4 A/250 VAC resistive load Power consumption: 30 VA max Supply voltage: 85-264 VAC

Dimensions: HxWxD 350x230x150 mm

Option: 1-6 analogue outputs

#### **Remotus 9000/32**

Modular structure with input and output boards. Relays and drivers potentiometers, or analogue outputs are available. Connection for serial communication.

Supply voltage: 24-48 VDC, 110/230 VAC

Dimensions: HxWxD 334x365x300 mm, alternatively HxWxD

545x334x300 mm

#### Remotus 9000/32 extended

As 9000/32, but with extension facilities.















# For fast delivery and simp

Remotus 8000 Line is our standard system with pre-programmed selections and suits most standardised cranes and traverses. Because 8000 Line has a standard version it is always in stock. 8000 Line is service-friendly and is available in two versions, a simpler version, which completes 3 movements in 2 stages, and one which completes 3 movements in 2 stages and with 3 extra functions. Both versions are available as manipulator transmitters and handheld transmitters. The system uses the general frequency band (433 MHz).

#### Remotus 8000 Euro

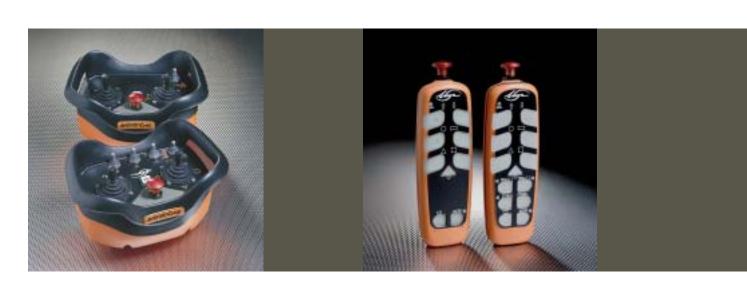
The Euro is a very user-friendly manipulator transmitter with simple, smooth operation. A specially designed carrying device reduces the back load during long work passes. There is a built-in self-test for all the functions.

Operating time approx. 10 hours Built-in self-test NiMH battery IP 65 Weight approx. 1.2 kg

#### Remotus 8000 BC

Pushbutton transmitter in resistant plastic enclosure with double positions in the buttons for 2-speed control. LED's indicate battery status, operation and optional functions. Built-in self-test. Strap and clips are included.

Operating time approx. 12 hours Built-in self-test Lithium battery (replaceable) IP 65 Weight 510 g



## ole installation



#### Remotus 8000/14 Receiver

The receiver has 13 outputs with change over relays and built-in siren. The programs are selected by the turn of a knob. Synthesizer radio with frequency selection on the 433 MHz band. An aerial is included for mounting directly on the receiver.

Max load: 4 A/250 VAC resistive load Power consumption: 12 VA max

Supply voltage: 12-35 VDC, 115/230 VAC or 48 VAC

Dimensions: HxWxD 250x150x80





#### **REMOTUS 8000 LINE**

Available in two versions

Operating time 10-12 hours

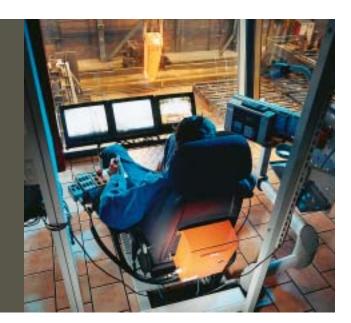
Battery/charger, carrying devices and work signs included

Option: relay board for external siren

# Many possibilities

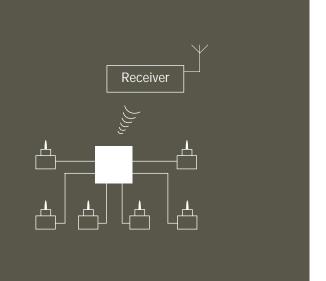
## Mini-controller – controlsystem for secure installation

The mini-controller is our control system for crane cabs and fixed control points. It is an ergonomically correct alternative which provides a comfortable, individual driving position. The seat and control units are available in different versions and can be adapted to your individual requirements. The signals are transmitted by cable or radio. The system can easily be combined with portable transmitters.



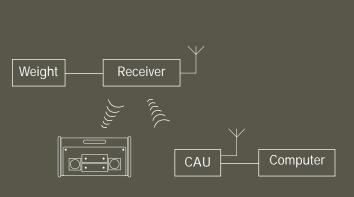
#### Remote controlled transmitter

Digital and analogue signals can be absorbed via cable by a remote controlled transmitter, which transmits the control signal via radio to one or more receivers.



## Operational monitoring – access to up to date information at all times

Central unit for collecting operational statistics from one or more cranes. The information is sent by radio from the crane/cranes to the CAU unit, where it is stored. The central unit can easily be emptied of information by means of a manual terminal or connected on-line to a central PC or computer.



# Mini for smaller control systems

**The Remotus Mini** is ideal for smaller control systems, e.g. electric hoist blocks, conveyor belts and other machine control. The mini has a pre-programmed radio system with up to 8 functions and you can have it supplied very quickly.



#### Handheld transmitter

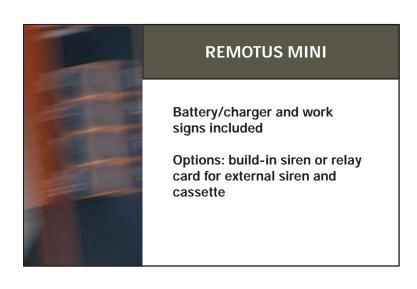
Resistant handheld transmitter with 4 buttons with double stages and 4 buttons with a single stage. LED's indicate battery status, operation (on) and optional functions. Built-in self-testing of all functions. Support clips are also supplied.

#### Receiver

8 outputs with change over contacts. Optional functions with program selection. Synthesizer radio with frequency selection on the 433 MHz band. Double processors provide high degree of safety. An aerial is included for mounting directly on the receiver.

Max. load: 6 A/250 VAC resistive load Power consumption: 12 VA max.

Supply voltage: 115/230 VAC, +15-20%, or 15-35 VDC, alternatively 24/48 VAC or 15-35 VDC.



# Ergonomic, simple and convenient

In consultation with users we have developed different carrying devices which facilitate the work and make it simple and convenient to carry the transmitter. Low weight, combined with extra support plates, reduces the load on the back during long operating passes. Choose from some of our different models.



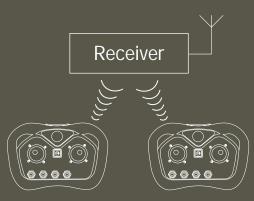




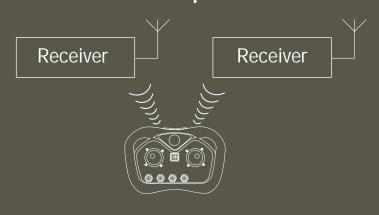
# System examples

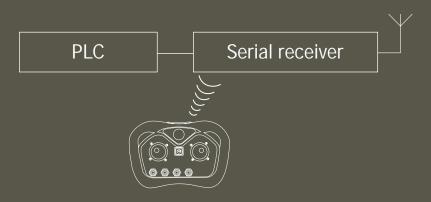
Remotus 9000 can easily be adapted to a wide variety of applications thanks to its modular structure and built-in PLC. The systems may include everything from a small number of relay outputs to complex systems with two-way radio communication with different combinations of serial, analogue and digital inputs and outputs.

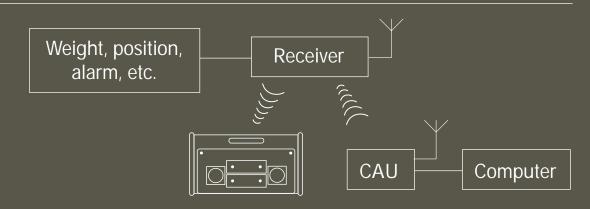
## Multi-driver operation



### Multi-crane operation











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