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# THE COLOUR THAT SUITS YOU NEW

## COLOUR OPTIONS FOR NOVA- AND T-SERIES



By default, the ABITRON transmitters of the NOVA-Series are delivered in the colour combination black and yellow. The newly developed T-Series will be delivered in grey and yellow. The bright yellow offers an excellent contrast to the switches, joysticks and the labeling. This ensures an excellent overview of all functions of your ABITRON transmitter.

The option of choosing the colours is becoming increasingly important to our customers. We are happy to ensure that your ABITRON safety radio remote control optimally suits your corporate design and seamlessly fits in with your company's overall image.



### CHOOSE YOUR COLOUR!

The standard colour of the NOVA- and T-Series lower housings is yellow. Red, blue or black lower housings are alternatively available. Any other RAL colour is also available on request for the tops and bottoms of our housings. Ask for your preferred colour!

Choose a colour for your ABITRON safety radio remote control! ABITRON personalises your transmitter!



# ALL LANGUAGES OF THE WORLD UNLIMITED

## LABELING IN ALL LANGUAGES

At ABITRON, safety always has top priority! Safety is not only a question of the most reliable technology that we provide for you, but also of the optimal usability of your device. Therefore, ABITRON provides the labeling of your safety radio remote control in all languages of the world, since optimal understanding means safe operation.

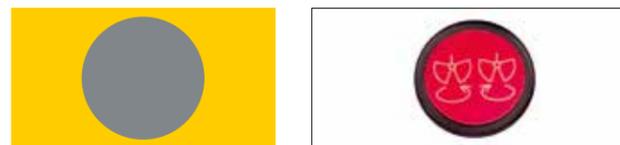
Of course, ABITRON personalises your controls beyond the labeling! Our logo is delivered on your ABITRON safety radio remote control by default, but it can be replaced, on request, with your company logo. Your logo can be attached to your ABITRON control unit and to the corresponding receiver unit. In addition, you can also choose the colour of the labeling foil, which is specially adapted to your application. Of course, we offer you the option of using your own pictograms and symbols.

Discuss with us your preferred special labeling!

### Contains:

- + Customer logo on the transmitter and receiver
- + Labeling according to customer RAL colours
- + Labeling with machine/vehicle/crane symbols
- + Labeling in foreign languages such as Chinese, Polish, Russian

In the labeling of your ABITRON safety radio remote control, everything is possible: For optimal understanding while operating your application, we offer everything from appropriate symbols to the implementation of your preferred language.



You would like to have your logo on your ABITRON safety radio remote control?  
You need special pictograms for optimal understanding of your controls?  
You would like the labeling to be in a foreign language?  
ABITRON makes all of this possible! Speak to your contact person!





See what's going on: Choose from ABITRON's monochrome displays and colour graphic displays as you need, and get the best view of all features in your application.



# EVERYTHING CUSTOMISED UNDER CONTROL

## TOP QUALITY DISPLAYS



The display is becoming increasingly important as a central source of information when operating modern machines. With ABITRON's GDM series monochrome displays and newly developed GDC colour graphic displays, you'll always have the best overview of all your machine's features. ABITRON ensures that the new displays are easy to read, even in sunlight. The ultra-modern displays of the GDC series are more than just display units. Like a small computer, they have their own computing power and can be programmed by you according to your needs.

The monochrome graphic displays of the GDM series are available in two sizes: The smaller GDM-2 has a display panel with 132x32 pixels, while the larger GDM-1 has 128x64 pixels. Both display sizes have a backlight. In text mode, the data is transmitted using ASCII characters. As an option, graphic modes and various character sets can also be configured.

### Seeing is safety

Displays play a key role in the operation of modern machines. ABITRON's new colour graphic displays are designed to provide you with secure control of all machine functions in any environment and under any weather conditions.

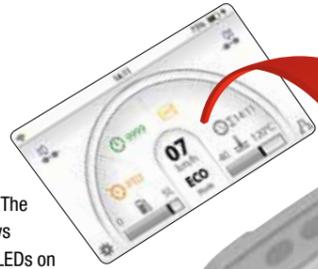
ABITRON's newly developed GDC colour graphic displays are also available in two sizes: Choose your GDC 3.5 "(320x240 pixels) or GDC 4.3" (480x272 pixels) as needed. Optionally, the GDC 4.3" display can be equipped with softkeys (with or without symbols) to control the menu. An optional video feedback is also available for this larger display. It can be configured with and without splitscreen for data and video feedback.

As an option, the GDC colour graphic displays can be equipped with a light sensor to automatically adjust the brightness of the display. This has a positive effect on the radio transmitter's operating hours. The display's internal memory of 128MB can be easily extended by a micro SD card. To be able to optimally adapt your GDC to your application, ABITRON offers a pre-configured Linux development environment (QT). This is provided as a virtual machine.



## CONTROL ELEMENTS

Well informed: The graphic displays and feedback LEDs on the transmitter keep you updated on the machine's status.



The machine stops reliably by means of the ABITRON emergency stop, which is positioned where you prefer it.

ABITRON equips your transmitter according to your individual needs. Choose the appropriate graphic displays, buttons, switches, LEDs and potentiometers for your application.

Everything under control: With the robust joysticks from ABITRON, you can safely and comfortably control the most important movements of your machine.



# THE OPTIMAL LAYOUT OF YOUR CONTROLS

## INDIVIDUAL LAYOUT

ABITRON, your customised safety radio remote control, perfectly matched to your application! Our experts coordinate with you the positioning of all operating elements so that you can handle your application optimally.

The user friendliness and informative value of the respective controls are our priority.

Together with you, we develop the best possible layout of joysticks, toggle switches, potentiometers, pushbuttons, LEDs and displays. In this way, operating your machine is efficient, safe and comfortable.

**ABITRON creates a solution just for you!**





# CONNECTED AS YOU NEED IT INNOVATIVE

## OPTIONAL RADIO AND CABLE CONTROL

ABITRON can also remotely control your machine in areas where radio communication is not allowed. We offer you the right communication option between your ABITRON remote control and your application for every working environment. Depending on what you need, control your machine by radio or in the combinations radio + cable or radio + cable + integrated charging unit. With an integrated charging unit, the transition between radio and cable operation can be carried out without interruption. ABITRON configures the wired transmission technology according to your needs and offers a variety of integrated interfaces such as RS 232/485, CANopen, DeviceNet, J1939, Profibus and Industrial Ethernet. **Enjoy the advantage of a direct connection to the machine.**

We are also happy to provide your conventional cable controller with digital and analogue outputs. Speak to your contact person!

ABITRON controls your machine in any environment, even where radio communication is prohibited. ABITRON can do this by fitting your radio remote control with a cable controller or offer it as a sole cable control.



### Radio

In radio mode, you can achieve with your ABITRON radio remote control a typical reach of more than 100 metres.

### Radio + cable

If your radio remote controller is also fitted with a cable option, cable lengths of up to 100 metres are possible.

### Radio + cable + integrated charging unit

Cable lengths of up to 100 meters are possible, even with the integrated charging function.

### Cable control

This option can be designed with serial interfaces and also with a conventional controller.



## SAFETY FIRST

### FOR SAFE OPERATION

For maximum safety while operating your application, ABITRON offers a range of tested and newly developed safety functions.

Tilt switch



Two-hand operation



Enabling switch



Push to operate



Login/Logout



Logout

Emergency stop



A **TILT SWITCH** is used to detect the inclination of the transmitter or the operator. You can specify the angle and time at which a signal is triggered. Time and angle can be set separately in each direction in the X and Y axes. The Z axis is fixed.

ABITRON's **TWO-HAND OPERATION** ensures that both of the user's hands are on the radio transmitter. Only then, it is possible to operate the machine.

With our joystick controls, an **ENABLING SWITCH** can be integrated, which is available in two-stage and three-stage versions.

Another safety feature is the function **PUSH TO OPERATE**. It can be provided either in the joystick (with a pushbutton) or as a separate pushbutton anywhere on the transmitter.

The **LOGIN/LOGOUT** option is mainly needed for tandem and master systems where multiple transmitters are used. Here, it is possible to have up to 15 transmitters and up to 255 receivers. This security feature ensures that only one control panel is logged on.

At ABITRON, the **EMERGENCY STOP** is designed as a turn-lockable pushbutton (dual-channel). It puts your machine in safe condition during dangerous situations.

ABITRON safety radio remote controls have been developed with the aim of making work with machines safer. This is also reflected in the safety features that are available and constantly evolving for your ABITRON radio remote control.



# IN THIS WAY, YOU CAN REACH ANYTHING INNOVATIVE

## INCREASE REACH AND PERFORMANCE

Even long distances and difficult terrain are no trouble for ABITRON radio remote controls. ABITRON always has an option of increasing the reach of your radio remote control.

<p><b>+ Reach increase</b></p> 	<p><b>+ Reach increase</b></p> <p>The range can be increased by using special antennas with "gain" (increase the directional sensitivity). You also have the option of fitting your transmitter with an external antenna.</p>
<p><b>+ Performance increase</b></p> 	<p><b>+ Performance increase</b></p> <p>The standard output of the ABITRON transmitter is 10mW, whereby 25mW and 100mW are also possible options.</p>
<p><b>+ Frequency range</b></p> 	<p><b>+ Frequency range</b></p> <p>ABITRON works with various frequency ranges such as 434MHz, 869MHz and 2.4GHz, for example.</p>
<p><b>+ Various radio modes</b></p> 	<p><b>+ Radio modes</b></p> <ol style="list-style-type: none"> <li>1. Fixed frequency</li> <li>2. Automatic frequency management</li> <li>3. AUTX mode (transmitter switches to a defined channel every time you turn it on/off)</li> <li>4. FCS mode (free channel search)</li> </ol>

Safe working even at long distances and difficult terrain. ABITRON makes it possible through various options such as performance increase.

Ask for our country-specific radio certificates!



# CONTROL EVERYTHING FROM A SAFE DISTANCE

INNOVATIVE

## VIDEO SYSTEM OPTION

Better than the naked eye: By combining high-quality cameras on the machine and the video feedback system on your ABITRON transmitter, you are as close to the action as it gets.



- + Real-time transmission
- + Reach of up to 75 metres
- + Display resolution: 480x272 pixels
- + up to 4 cameras possible
- + Switchover using rotary switch
- + Camera connection using PAL and NTSC interfaces
- + Night vision mode
- + External video "transmitter" available as an option
- + Video feedback with splitscreen and simultaneous data feedback on graphic display GDC 4.3 available

The ABITRON video feedback system allows you to get a better view of your work area and to position machine parts more accurately directly from your ABITRON radio transmitter. This assistance system improves safety for both human and machine and makes the whole workflow more effective.

As an option, you can receive up to four video signals with your ABITRON radio transmitter. Switch between each video signal to see exactly the area you need. Here, an already existing video signal can be transmitted from the machine to the ABITRON transmitter. ABITRON also offers the option of high-quality cameras that can be integrated into your application.

### CAMERAS

ABITRON also offers robust cameras that are compatible with your application. The IP69K-protected devices transmit the machine's image in real time and have motion sensor and night vision mode. With visual contact, a reach of approx. 75m is possible.



Resolution: 960x480 pixels  
 Viewing angle: 150°  
 Infra-red reach: approx. 10 m  
 Protection class: IP69K



# INDUSTRIAL ETHERNET NEW

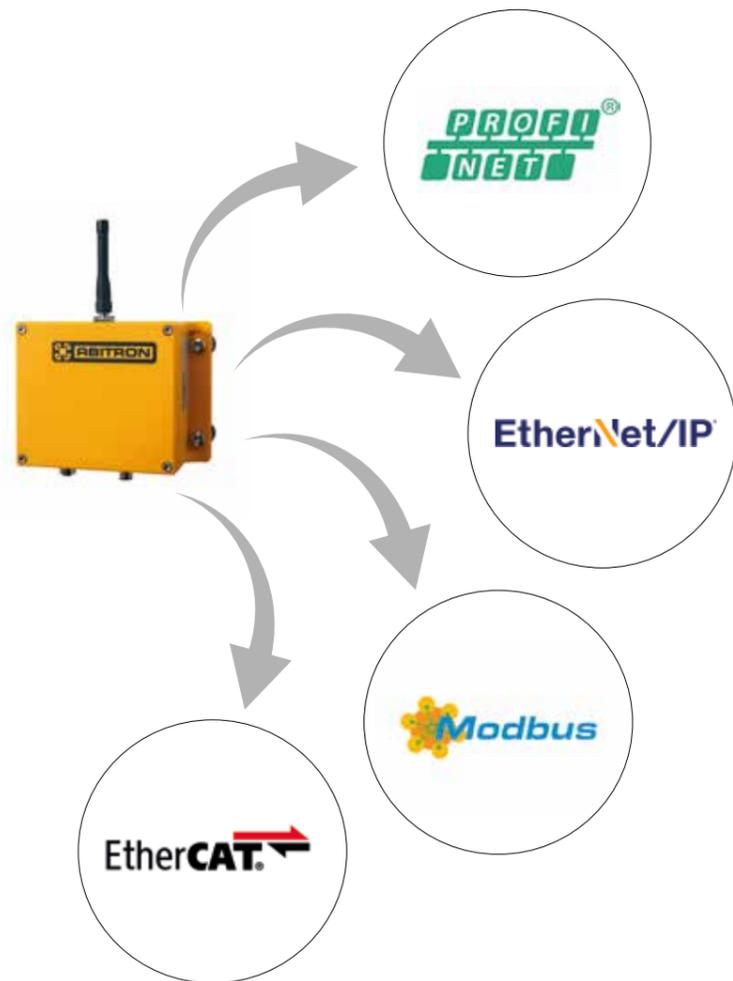
## TOP QUALITY RECEIVER

### MAXIMUM CONNECTIVITY – MAXIMUM FLEXIBILITY

As part of Industrial Ethernet, new networking technologies have been created that adapt the Ethernet standard to industrial environmental conditions. Industrial Ethernet makes it increasingly possible to create a transparent network infrastructure that is consistent across all levels. Thus, Industrial Ethernet offers completely new and much higher flexibility than most of the networks used so far.

### YOUR INDUSTRIAL ETHERNET SOLUTION AT ABITRON

ABITRON has a multitude of possibilities in the field of Industrial Ethernet. With the RX 14+ Industrial Ethernet, ABITRON offers a universal receiver that can be adapted to your requirements with a wide variety of software. In this way, different protocols can be fed from a single receiver. Available interfaces include ProfiNet, EtherNet IP, ModBus TCP and EtherCAT. ABITRON provides two RJ45 connectors as standard. Thus, you do not need an extra switch. You have the option of receiving your desired plug-in connection from us.





ABITRON SPARE PARTS AND ACCESSORIES

Since many radio remote controls are exposed to heavy loads, they occasionally need spare parts. At ABITRON you can conveniently place your order by phone, fax or email. We take care of the immediate delivery of all relevant items. Our staff are happy to advise you.



CHARGER BCM-1

100-240VAC / for mini-battery  
EU, UK, US & AUS ADAPTER  
KH68108570



also available with:

9-36VDC VEHICLE ADAPTER KH68108690  
9-36VDC FLAT RECEPTACLES KH68108670



CHARGER BCP-M

100-240VAC / for E-Pack  
EU, UK, US & AUS ADAPTER  
KH68104570



also available with:

9-36VDC VEHICLE ADAPTER KH68104690  
9-36VDC FLAT RECEPTACLES KH68104670



CHARGER BCT-1

100-240VAC / for TGA battery  
EU, UK, US & AUS ADAPTER  
KH68108101



also available with:

9-36VDC VEHICLE ADAPTER KH68108131  
9-36VDC FLAT RECEPTACLES KH68108151



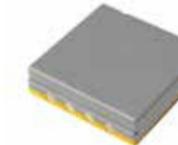
BATTERY MINI

NiMH 3,6V/1,9Ah  
KH68300990



BATTERY E-PACK M

Li-Ion 3,6V/8,6Ah  
KH68304000



BATTERY TGA

NiMH 6,0V/1,0Ah  
KH68302500



BELLY BELT WITHOUT PADDING

NOVA-M  
KH11406600



BELLY BELT WITH PADDING

T-Series, NOVA-L and NOVA-XL  
KH11406052



NECK BELT WITH PADDING

T-Series, NOVA-Series and GL  
KH11406202



SHOULDER CROSS BELT

with padding, breast pocket, reflective strips  
T-Series, NOVA-Series, GL, GR, EURO  
KH11406900



SHOULDER BELT

TGA/TGB  
KH11404105



ANTENNA MINIFLEX

TNC / 419-460MHz  
KH56504011



ANTENNA MINIFLEX

TNC / 850-900MHz  
KH56504100



ANTENNA DUAL BAND FLEXIBLE

TNC / 434MHz / 869MHz  
KH56506500



ANTENNA EXTENSION

RG58 TNC->3,0m->TNC with holder  
TNC PLUG STRAIGHT -> TNC SOCKET STRAIGHT  
56501300-L03.00M

# CONTROL. EVERYTHING. EVERYWHERE.



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