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# ICARUS<sup>®</sup>blue

WIRELESS REMOTE CONTROL SYSTEM  
WITH BLUETOOTH<sup>®</sup> TECHNOLOGY



## The future is now

The new ICARUS blue radio remote control series with the latest Bluetooth® 5.0 technology is finally here and it now offers you even more possibilities and various improved features. **The perfect solution for your application!**

## What are the benefits?

### Control versatility

No matter whether you want to control your application wirelessly using a handheld transmitter or conveniently and individually using a smartphone - all this is possible thanks to Bluetooth technology!

### Interference resistance

Bluetooth works with a so-called „adaptive frequency hopping“ method. This method not only prevents interference with each other or other devices, but also ensures a secure, fast and stable connection.

### Built-in wireless bidirectional communication

Unlike conventional radio remote control systems in similar price categories, ICARUS blue always is equipped with bidirectional communication. This means that not only commands and information can be sent, but also received. And all this without the complicated and costly process of wiring.

### High IP-protection rating

The robust and waterproof housing (IP69K) protects the new R-series receivers against the ingress of dust, close-range high pressure water and high-temperatures (up to +85°C). Due to its IP67 protection rating and the materials used, the TM600 transmitter is also extremely robust and well protected against external influences.

### Comprehensive configuration and individualization options

The smartphone app allows you to configure the outputs of your receiver independently and to adjust their behaviour individually. However, if you need more extensive setting options or if your application requires specific process sequences and an individual connection concept for additional system components, the ICARUS blue R-Series also offers a solution for this



## Handheld transmitter

### TM600

- Bluetooth 5.0
- Control up to 12 functions
- 4 function and 2 selection keys
- Switch between two separate receivers
- Built-in bidirectional communication
- Ergonomic, robust and lightweight design
- Long battery life (1350mAh)
- Optical feedback via 4 multicoloured LEDs
- Convenient charging thanks to USB-C charging port
- Ultra fast response time (approx. 50ms) and approx. 100m operating range
- 1,0m charging cable (USB-A to USB-C), belt-clip and cover-plate for backside included

## Smartphone app

### ICARUS blue R-Series

A conventional control via handheld transmitter is not enough for you? You want to control your application conveniently, easily, and without additional devices? Then turn your smartphone into a transmitter!

Numerous button and output configuration options, live monitoring of the battery voltage and a large icon selection – these are just a few of the features the app offers you to control your application comfortably.

Convince yourself of the new ICARUS blue R-Series app and get to know the countless possibilities. Available **free of charge** for Android (requires Android 5.0 and Bluetooth 4.1).



## Receivers

### R820

- Bluetooth 5.0
- Built-in bidirectional communication
- Approx. 100m operating range
- 8 digital outputs
- 2 digital inputs
- 9 - 36 Vdc supply voltage
- Pre-mounted cable (1,5m)
- IP69k protection class <sup>2</sup>
- Configuration via: Smartphone app or individual pre-configuration <sup>3</sup>
- Control via: TM600, Smartphone app (R-Series)

### R420

- Bluetooth 5.0
- Built-in bidirectional communication
- Approx. 100m operating range
- 4 digital outputs
- 2 digital inputs
- 9 - 36 Vdc supply voltage
- Pre-mounted cable (1,5m)
- IP69k protection class <sup>2</sup>
- Configuration via: Smartphone app or individual pre-configuration <sup>3</sup>
- Control via: TM600, Smartphone app (R-Series)

## Product options

In order to be able to match the products perfectly to your application, we offer you a variety of product options - starting with different standard configurations, configurations made individually for you, up to hardware adjustments and complex system solutions for integrating additional components (please see page 10 and following).





## Sets

### **TM600 + R820**

The perfect duo for professional users with extensive requirements. Set includes one TM600 handheld transmitter as well as one R820 receiver with 8 outputs and 2 inputs.

### **TM600 + R420**

Same features, fewer outputs. This set consists of one TM600 handheld transmitter as well as one R420 receiver with 4 outputs and 2 inputs.

### **TM600 + 2 x R420**

The standardised solution for all those who want to switch between two receivers quick and easy by pressing a button on the handheld transmitter. This set consists of one TM600 handheld transmitter and as well as two (!) R420 receivers with 4 outputs and 2 inputs.

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## Accessories

### **TM600 Holder**

This holder keeps your TM600 securely in place. Robust material and easy mounting!

### **TM600 USB-cable**

Replacement for the TM600 charging cable. Length: 1,0m / Typ: USB-A to USB-C



# Standard configurations

All listed products are delivered according to the respective hardware specifications (see data sheets). However, there are various pre-configurations available on the software side.

## Standard configuration „S1“ - Operation of 8 functions

### Hardware:

R820 or R420 in combination with TM600 and/or ICARUS blue R-Series app

### Description:

A total of 8 different functions can be controlled. In the smartphone app this is done via 8 buttons. On the TM600 you can switch between the function blocks (FB) 1 and 2 using the two upper selection buttons. The function keys A to D control the functions 1 - 4 (FB 1) or 5 - 8 (FB 2).

## Standard configuration „S2“ - Operation of 6 functions

### Hardware:

R820 or R420 in combination with TM600 and/or ICARUS blue R-Series app

### Description:

A total of 6 different functions can be controlled. In the smartphone app this is done via 6 buttons. On the TM600 the function keys A to D are used to control functions 1 - 4 and the two upper selection keys are used to control functions 5 and 6.

## Standard configuration „S3“ - Operation of 4 functions

### Hardware:

R820 or R420 in combination with TM600 and/or ICARUS blue R-Series app

### Description:

A total of 4 different functions can be controlled. In the smartphone app this is done via 4 buttons. On the TM600 the function keys A to D are used to control functions 1 - 4. The two upper selection keys of the TM600 remain functionless.

## Standard configuration „2XR“ - Switching between two receivers

### Hardware:

TM600 in combination with two R420 or two R820

### Description:

Switch between two receivers using the two upper selection buttons on the TM600. The function keys A - D are used to control functions 1 - 4 of the respective / selected receiver.

## No matter which of the four standard configurations you choose:

You can always change/edit all of the settings listed below using the smartphone app.

- Assign several outputs to one button (app) / function key (transmitter)
- Change the behaviour of buttons / function keys (act as a switch, time functions, ...)
- Prevent simultaneous operation of buttons / function keys (interlock)
- Deactivate buttons / function keys
- Change button icons
- Protect settings from unauthorized access (password protection)

**Please note:** Inputs can only be configured / used in individual configurations (see next page).



## Individual configurations

The possibilities of the different standard configurations do not fit your application? We would be happy to create a configuration perfectly tailored to your application. For this purpose, numerous other functions / features are available to you, such as:

- Linking input signals with functions (process sequences)
- Disable control via app or handheld transmitter
- Prohibit configuration
- Exclusive control (enable control only with devices purchased from you; Brand-ID)
- Change the functions of the transmitter selection buttons
- Adjust colors and functions of the (selection) LEDs

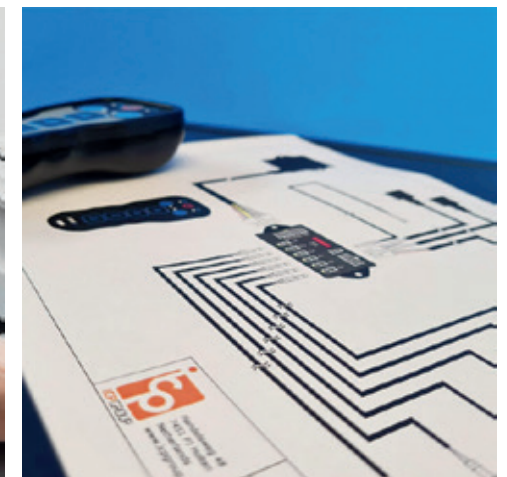
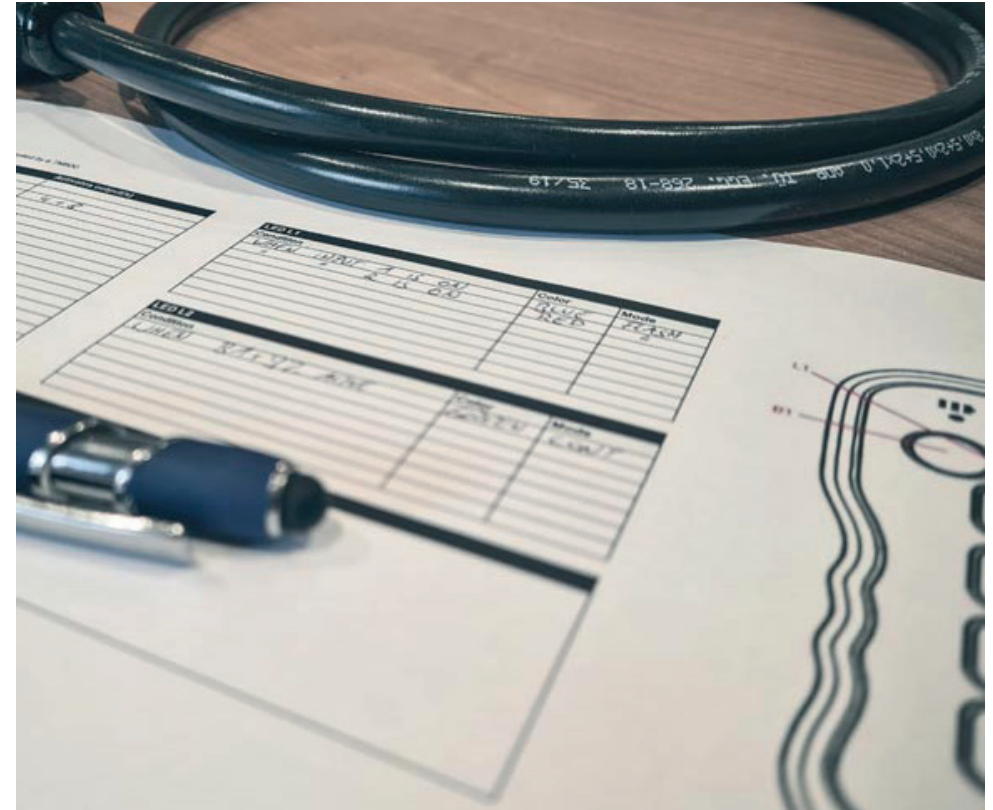
## System integration

ICARUS blue is not just a brand. Behind ICARUS blue is years of experience, technical know-how and more than you might think.

Thanks to our own development department and in-house production we can offer you complex solutions and help you to integrate ICARUS blue perfectly into your application / system. This includes for example:

- Development and production of individual wire harnesses / connection concepts
- Potting and assembly of further components to form a system
- Adaptation of the control foil design so that it fits your application and corporate design
- Adaptation of the smartphone app so that it fits your application
- And many more

**Please do not hesitate to contact us. We will be happy to provide you with detailed information about the possibilities!**





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