



欧姆电子 OHM 产品选型手册

OHM PRODUCTS SELECTION MANUAL

欧姆（重庆）电子技术有限公司
OHM (Chongqing) Electronics Technology Co., Ltd.



欧姆电子致力于在国内及全球的遥控领域中
打造出富有影响力的工业无线遥控产品！

OHM Electronics is committed to creating influential industrial
wireless remote control products in the domestic and global
remote control field!



企业简介

Corporate profile

欧姆电子OHM成立于2013年8月，是一家专注于工业无线遥控设备，集研发、生产、销售、售后为一体的高新技术企业。欧姆在重庆市建立生产和制造基地，并且在上海市设立销售总部和售后服务中心，提供周到、完善的工业无线遥控技术的咨询、支持和售后服务。

Founded in August 2013, OHM Electronics is a high-tech enterprise that focuses on industrial wireless remote control equipment and integrates R&D, production, sales and after-sales service. OHM has established a production and manufacturing base in Chongqing, and a sales headquarters and after-sales service center in Shanghai, providing thoughtful and complete consultation, support and after-sales service for industrial wireless remote control technology.

作为工业无线遥控器行业的尖端企业，欧姆电子OHM将“铸造辉煌、唯有质量”作为企业准则，将“始终提供安全及可靠的工业无线遥控产品”作为企业使命。致力于开发安全可靠、坚实耐用、品质优越的工业无线遥控设备，为用户减少劳动力、提高效率及为操作人员提供更便捷和安全的操作环境，在工业、建筑业、林业、矿业等领域实现机械设备与智能控制的完美统一。

As a cutting-edge enterprise in the industry of wireless remote control, OHM electronic OHM regards “Casting brilliance, only quality” as the enterprise guideline, will “Always provide safe and reliable industrial wireless remote control products” as the mission of the enterprise. Dedicated to the development of safe and reliable, durable, high-quality industrial wireless remote control equipment, for users to reduce labor, improve efficiency and provide operators with more convenient and safe operating environment, in industry, construction, forestry, mining and other fields to achieve the perfect unity of mechanical equipment and intelligent control.

企业实景

Corporate environment



展示厅 Showroom



会议室 Meeting room



办公区 Office area



实验室 Laboratory



CNC加工中心 CNC machining center



调试区 Debug area



生产组装车间 Production and assembly workshop



仓库 Storehouse

企业资质

Business qualifications



荣获“高新技术企业”
High-tech enterprise



ISO9001 认证
ISO 9001 certificate



CE 认证
CE certificate



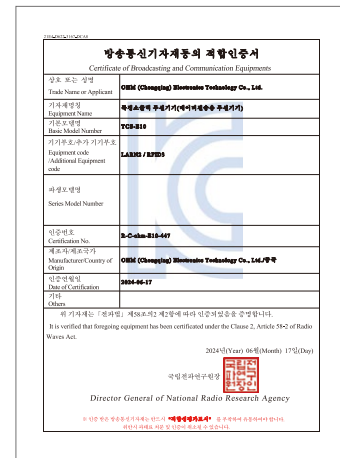
FCC 认证
FCC certificate



CE证书
CE certificate



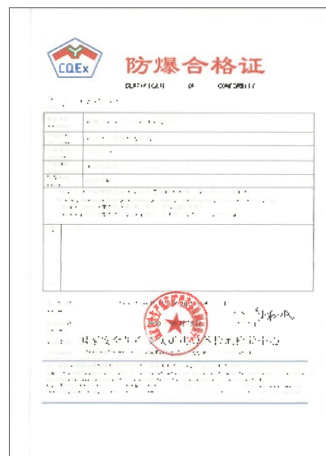
FCC证书
FCC certificate



韩国无线通信设备证书
Korean wireless communication
equipment certificate



安标证书
Certificate of safety signs
(FYF)



防爆合格证
Explosion-proof qualified certificate
(FYF)



防爆证书
Explosion proof certificate
(TCT-C80)

服务客户



Service customers

让更多的用户得到适合自己需求的解决方案

Let more users get the solution that suits their needs



徐工集团



中联重科



三一集团



中国铁建

中国铁建



中国中铁

中国中铁



盈峰环境

盈峰环境



星邦重工



中国中车

中国中车



法兰泰克



诺威起重



卫华集团



纽科伦

奥力通起重机
ORITCRANES

奥力通起重



华德起重



河南矿山



株洲天桥起重

产品目录

Product catalog



P07 10寸屏遥控器
10-inch screen remote control



P08 高清无线视频遥控
High definition wireless video remote control



P09 TCT-A



P10 TCT-B



P15 TCT-C



P20 TCT-D



P21 TCT-E



P22 可选配件
Optional accessories



P23 TCR-R



P31 FYF



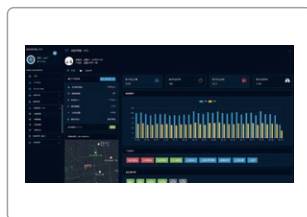
P33 FYS



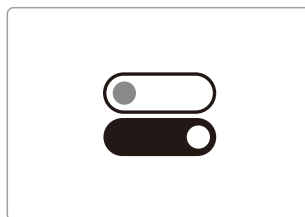
P35 指纹识别和照明系统
Fingerprint recognition and lighting system



P36 TCS 系统数据记录器
TCS series data logging mode



P36 工业云平台
Industrial cloud platform



P37 TCS 系统可增设功能
Additional functions of TCS



P39 服务站点
Service address

10寸屏遥控器 10-inch screen remote control

IPS

10.1寸高清显示屏, 1280*800分辨率
10.1-inch high-definition display, 1280*800 high resolution

1080P

2路1080P摄像头 + 1路360环视系统
2* 1080P cameras + 1*360-degree surround view system



实时的将设备运行数据显示到遥控器上
Display device operation data on the remote control in real time



无线传输距离: 500m / 1000m
Wireless transmission distance



视频整体延时 < 200ms, 数据延时 < 50ms
Overall video delay < 200ms, data delay < 50ms



发射器参数

Transmitter parameters



393 x 256 x 67mm
机身尺寸 (Dimensions)



工作温度: -20°C ~ +50°C
Operating Temperature



背负方式: 肩带式
Carrying method: shoulder strap



≈3.25kg
重量 (Weight)



内置8400mAh锂电池
built-in 8400mAh lithium battery



续航时间: ≤8 小时
Battery life: ≤ 8 hours

防护等级
Protection Level

IP65

接收器参数

Receiver parameters



290 x 200 x 95mm
安装尺寸 (Installation Size)



工作温度: -20°C ~ +60°C
Operating Temperature



控制方式: CAN总线
Control mode: CAN bus



操作元件及功能: 8路AI+64路DI
8-channel AI + 64-channel DI

防护等级
Protection Level

IP65

高清无线视频遥控

High definition wireless video remote control



IPS

高清IPS显示屏，支持多路高清视频
high-definition IPS display, Supports multi-channel



支持触摸操作和软键盘数据输入
Touch operation and soft keyboard data input

5.0寸触摸显示屏

5.0-inch touch display screen



720P

4路视频显示，支持720P高清视频
4-channel video & 720P high-definition video



自由切换视频显示或者反馈数据显示
Freely switch between display or data feedback



传输距离：100M
Transmission distance



工作温度：-20°C ~ +70°C
Working temperature

防护等级 | IP65
Protection Level

7.0寸触摸显示屏

7.0-inch touch display screen



720P

4路视频显示，支持720P高清视频
4-channel video & 720P high-definition video



支持多种显示模式
Support multiple display modes



传输距离：100M
Transmission distance



工作温度：-20°C ~ +70°C
Working temperature

防护等级 | IP65
Protection Level

8.0寸触摸PAD显示屏

8.0-inch touch display PAD screen



1080P

4路视频显示，支持1080P高清视频
4-channel video & 1080P high-definition video



自由切换视频显示或者反馈数据显示
Freely switch between display or data feedback



工作时长：> 8小时
Working hours：> 8

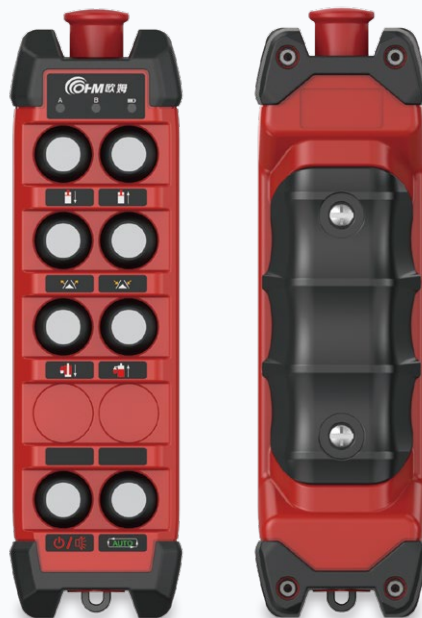


工作温度：-20°C ~ +50°C
Working temperature

防护等级 | IP67
Protection Level

TCT-A 系列 Series

- 超长待机，两节电池工作超30天
Ultra-long standby time, two batteries can work for more than 30 days
- 发射器与接收器完美配对，无需重新编程
Perfect pairing of transmitter and receiver, no need for reprogramming
- 防护等级IP66，直面雨水、油污
IP66 protection level, can withstand rain and oil
- 接收器重载直连、轻便小巧，安装快捷方便
Heavy-duty direct connection of receiver, light and compact, quick and easy installation
- 动作时声光提示，省掉额外报警器
Sound and light prompts when in action, eliminating the need for additional alarms
- 模块化设计、超高性价比
Modular design, super cost-effective



TCT-A12

IP66

防护等级
Protection Level



操作元件 Operating elements	≤10个双速按键；1个急停开关 ≤10 dual-speed buttons; 1 emergency stop switch
标配功能 Standard functions	一键配对；开机访问码 One-touch pairing; power-on access code
选配功能 Optional functions	1对2功能；2对1功能；2对2功能 1 to 2 function; 2 to 1 function; 2 to 2 function
适配接收器 Adapter receiver	TCR-R100; TCR-R200; TCR-R400; TCR-R500
适配电池 Adapter battery	2节5号干电池 2 AA batteries
工作频率 Operating frequency	430MHz-433MHz; 475MHz-495MHz



≈350g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-B 系列 Series

■ 电池模块化设计，更换更方便，单电池续航40小时
Modular battery design makes replacement easier, and a single battery can last for 40 hours

■ 双色注塑包胶，超强的抗震抗摔性，2米跌落

Double-color injection molding, super strong shock and drop resistance, 2-meter drop

■ 急停开关、按键开关采用自动化设备组装，一致性更好

Emergency stop switch and push button switch are assembled with automated equipment, with better consistency

■ IP65防护性能更强，适合井下或室外操作

Stronger protection performance: IP65, suitable for underground or outdoor operation

■ 高速CPU，响应时间≤20ms

High-speed CPU, response time ≤20ms

■ 按键使用寿命一百万次

The service life of keys can reach one million times



TCT-B08

IP65

防护等级
Protection Level



操作元件
Operating elements

≤8个单速按键；1个急停开关
≤8 single-speed buttons; 1 emergency stop switch

标配功能
Standard functions

智能钥匙；自动关机；开机访问码
Smart key; automatic shutdown; power-on access code

选配功能
Optional functions

身份识别卡；1对N功能；N对1功能；N对N功能 (N≤8)
ID card; 1 to N function; N to 1 function; N to N function (N≤8)

适配接收器
Adapter receiver

TCR-R300

适配电池
Adapter battery

3节5号干电池或AA镍氢电池
3 No. 5 dry batteries or AA NiMH batteries

工作频率
Operating frequency

416MHz-419MHz; 433MHz-434MHz



≈280g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-B12

IP65

防护等级
Protection Level



操作元件 Operating elements	≤8个双速按键；1个急停开关 ≤8 dual-speed buttons; 1 emergency stop switch
标配功能 Standard functions	智能钥匙；自动关机；开机访问码 Smart key; automatic shutdown; power-on access code
选配功能 Optional functions	身份识别卡；1对N功能；N对1功能；N对N功能 (N≤8) ID card; 1 to N function; N to 1 function; N to N function (N≤8)
适配接收器 Adapter receiver	TCR-R500
适配电池 Adapter battery	3节5号干电池或AA镍氢电池 3 No. 5 dry batteries or AA NiMH batteries
工作频率 Operating frequency	416MHz-419MHz; 433MHz-434MHz



≈280g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-B16

IP65

防护等级
Protection Level



操作元件 Operating elements	≤10个双速按键；1个急停开关 ≤10 dual-speed buttons; 1 emergency stop switch
标配功能 Standard functions	智能钥匙；自动关机；开机访问码 Smart key; automatic shutdown; power-on access code
选配功能 Optional functions	身份识别卡；1对N功能；N对1功能；N对N功能 (N≤8) ID card; 1 to N function; N to 1 function; N to N function (N≤8)
适配接收器 Adapter receiver	TCR-R500
适配电池 Adapter battery	3节5号干电池或AA镍氢电池 3 No. 5 dry batteries or AA NiMH batteries
工作频率 Operating frequency	416MHz-419MHz; 433MHz-434MHz



≈310g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-B20

IP65

防护等级
Protection Level



操作元件 Operating elements	≤12个双速按键；1个急停开关 ≤12 dual-speed buttons; 1 emergency stop switch
标配功能 Standard functions	智能钥匙；自动关机；开机访问码 Smart key; automatic shutdown; power-on access code
选配功能 Optional functions	身份识别卡；1对N功能；N对1功能；N对N功能 (N≤8) ID card; 1 to N function; N to 1 function; N to N function (N≤8)
适配接收器 Adapter receiver	TCR-R300；TCR-R500
适配电池 Adapter battery	3节5号干电池或AA镍氢电池 3 No. 5 dry batteries or AA NiMH batteries
工作频率 Operating frequency	416MHz-419MHz；433MHz-434MHz



≈350g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-B16FK

IP65

防护等级
Protection Level



操作元件 Operating elements	≤10个双速按键；1个急停开关；1块LCD ≤10 dual-speed buttons; 1 emergency stop switch; 1 LCD
标配功能 Standard functions	智能钥匙；自动关机；开机访问码 Smart key; automatic shutdown; power-on access code
选配功能 Optional functions	身份识别卡；1对N功能；N对1功能；N对N功能 (N≤8) ID card; 1 to N function; N to 1 function; N to N function (N≤8)
适配接收器 Adapter receiver	TCR-R300；TCR-R500；TCR-R510
适配电池 Adapter battery	3节5号干电池或AA镍氢电池 3 No. 5 dry batteries or AA NiMH batteries
工作频率 Operating frequency	416MHz-419MHz；433MHz-434MHz



≈360g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-B16 BT/S

IP66

防护等级
Protection Level

▪ 跳频抗干扰，开关零位检测
Frequency hopping anti-interference, Switch zero position detection

▪ 频率、节能等参数自设定
Frequency, energy saving and other parameters are set automatically

▪ 重量、信号等反馈显示
Feedback display of weight, signal, etc.

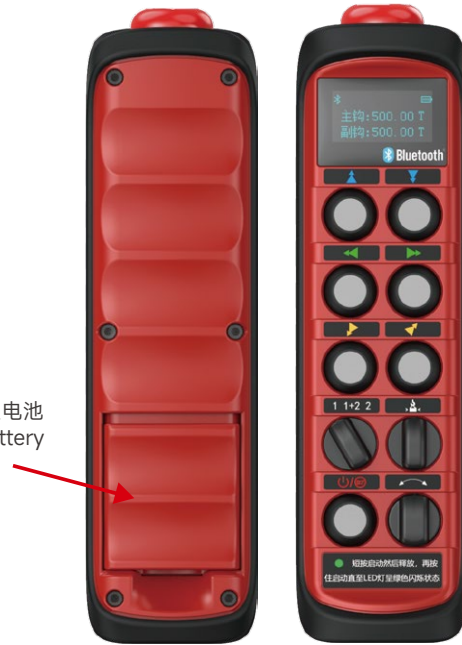
▪ 循环充电锂电池
Rechargeable lithium battery

▪ 长寿命按键
Long life buttons

▪ OLED高亮显示
OLED high brightness display screen

▪ 可定制化开关
Customizable switches

循环充电锂电池
Rechargeable lithium battery



操作元件
Operating elements

≤10个双速按键；≤3个旋转开关；≤1个电位器；1个急停开关
≤10 dual-speed buttons; ≤3 rotary switches; ≤1 potentiometer; 1 emergency stop switch

标配功能
Standard functions

智能钥匙；OLED显示；自动关机；按键自检；参数设定；开机访问码
smart key; OLED display; automatic shutdown; button self-test; parameter setting; power-on access code

选配功能
Optional functions

身份识别卡；N对N功能（N≤8）；OLED反馈
ID card; N to N function (N≤8); OLED feedback

适配接收器
Adapter receiver

TCR-R100; TCR-R300; TCR-R500; TCR-R510; TCR-R730; TCR-R740; TCR-R800

适配电池
Adapter battery

Li2400

工作频率
Operating frequency

416MHz-419MHz (S) ; 433MHz-434MHz (S) ; 2.4GHz (BT)



≈360g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-B08FIX

IP65

防护等级
Protection Level



操作元件及功能

Operating elements
and functions

≤10个开关量输入；≤10个功能继电器；1组急停继电器；
1路CAN总线；2路模拟量输入输出

≤10 switch inputs; ≤10 functional relays; 1 set of emergency stop relays;
1 CAN bus; 2 analog input and output

标配功能

Standard functions

单向通信

one-way communication

选配功能

Optional functions

1对N功能；N对1功能；N对N功能（N≤8）；双向通信

1 to N function; N to 1 function; N to N function (N≤8); two-way communication

工作频率

Operating frequency

416MHz-419MHz; 433MHz-434MHz; 2.4GHz

通信距离

Communication distance

≥100m

工作电压

Operating voltage

42-240V AC; 10-30V DC; 220/380V AC



≈2kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-Mini-FIX

IP66

防护等级
Protection Level



操作元件及功能

Operating elements
and functions

1路CAN总线、自主跳频

1 CAN bus, autonomous frequency hopping

标配功能

Standard functions

工业级无线数据双向透传，同时兼容CAN标准帧和扩展帧

Industrial-grade wireless data bidirectional transparent transmission, compatible
with CAN standard frames and extended frames

选配功能

Optional functions

客户可自主变更CAN报文地址、报文长度

Customers can change the CAN message address and message length independently

工作频率

Operating frequency

2.4G

通信距离

Communication distance

≥100m

工作电压

Operating voltage

10-30V DC



≈260g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-C 系列 Series

- 坚固、耐用、防尘防水符合人体工程设计
Strong, durable, dustproof and waterproof, ergonomic design
- 双CPU编解码，保证数据通信可靠
Dual CPU codec to ensure reliable data communication
- 精心设计摇杆，寿命达100万次
Well-designed joystick, life of 1 million times
- 智能钥匙，完美后备工作能力
Smart key, perfect backup capability
- 实时主动控制，符合欧盟标准
Real-time active control, in line with EU standards
- 高达60路IO输入，10路比例量输入
Up to 60 IO inputs, 10 proportional inputs
- 可选的总线输出类型，可自定义反馈内容
Optional bus output type, customizable feedback content



TCT-C18

IP65

防护等级
Protection Level



操作元件

Operating elements

≤2个万向摇杆；≤4个侧键开关；1个急停开关；多个钮子开关；旋转开关；按键开关等。

≤2 universal rockers; ≤4 side switches; 1 emergency stop switch; multiple toggle switches; rotary switch; push button switch, etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key; automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能（N≤8）；碰撞关机；倾斜关机；失重关机；2.2寸显示屏；有线控制；指纹识别

ID card; N to N function (N ≤ 8); collision shutdown; tilt shutdown; weightlessness shutdown; 2.2-inch display; wired control; fingerprint recognition

适配接收器

Adapter receiver

TCR-R700

适配电池

Adapter battery

Li3600; Li2800S; BN2100

工作频率

Operating frequency

416MHz-419MHz; 433MHz-434MHz; 905MHz-908MHz; 2.4GHz



≈1.4kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic

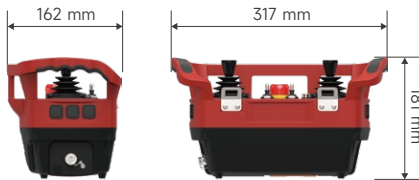


产品认证
Certification

TCT-C26

IP65

防护等级
Protection Level



操作元件

Operating elements

≤2个万向摇杆；≤6个侧键开关；1个急停开关；多个钮子开关；
旋转开关；按键开关；电位器等

≤2 universal joysticks; ≤6 side key switches; 1 emergency stop switch;
multiple toggle switches; rotary switch; push button switch; potentiometer, etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key; automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能 (N≤8)；碰撞关机；倾斜关机；
失重关机；2.2寸显示屏；有线控制；指纹识别

ID card; N to N function (N ≤ 8); collision shutdown; tilt shutdown;
weightlessness shutdown; 2.2-inch display; wired control; fingerprint recognition

适配接收器
Adapter receiver

TCR-R700

适配电池
Adapter battery

Li3600; Li2800S; BN2100

工作频率
Operating frequency

416MHz-419MHz; 433MHz-434MHz; 905MHz-908MHz; 2.4GHz



≈1.4kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic

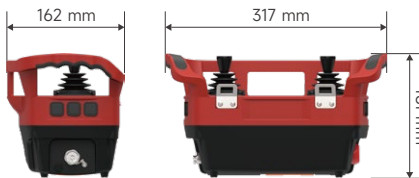


产品认证
Certification

TCT-C32

IP65

防护等级
Protection Level



操作元件

Operating elements

≤3个万向摇杆；≤6个侧键开关；1个急停开关；多个钮子开关；
旋转开关；按键开关；电位器等

≤3 universal joysticks; ≤6 side key switches; 1 emergency stop switch;
multiple toggle switches; rotary switch; push button switch; potentiometer, etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key; automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能 (N≤8)；碰撞关机；倾斜关机；失重关机；
显示屏 (2.2寸、4.0寸)；有线控制；面板照明；指纹识别

ID card; N to N function (N ≤ 8); collision shutdown; tilt shutdown; weightlessness shutdown;
display (2.2, 4.0-inch); wired control; panel lighting; fingerprint recognition

适配接收器
Adapter receiver

TCR-R310; TCR-R700~740

适配电池
Adapter battery

Li3600; Li2800S; BN2100

工作频率
Operating frequency

416MHz-419MHz; 433MHz-434MHz; 905MHz-908MHz; 2.4GHz



≈2kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-C64

IP65

防护等级
Protection Level



操作元件

Operating elements

≤3个万向摇杆；≤6个侧键开关；1个急停开关；多个钮子开关；旋转开关；按键开关等

≤3 universal joysticks; ≤6 side key switches; 1 emergency stop switch; multiple toggle switches; rotary switch; push button switch, etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key; automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能（N≤8）；碰撞关机；倾斜关机；失重关机；显示屏（2.2寸、4.0寸、5.0寸）；有线控制；面板照明；视频监控；指纹识别

ID card; N to N function (N ≤ 8); collision shutdown; tilt shutdown; weightlessness shutdown; 2.2-inch display; 4.0-inch display; 5.0-inch display; wired control; panel lighting; video monitoring; fingerprint recognition

适配接收器

Adapter receiver

TCR-R100; TCR-R310; TCR-R700~740; TCR-R800

适配电池

Adapter battery

Li3600; Li2800S; BN2100

工作频率

Operating frequency

416MHz-419MHz; 433MHz-434MHz; 905MHz-908MHz; 2.4GHz



≈2.2kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic

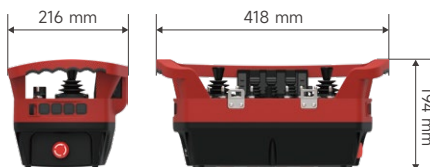


产品认证
Certification

TCT-C80

IP65

防护等级
Protection Level



操作元件

Operating elements

≤4个万向摇杆或≤10路比例摇杆；≤8个侧键开关；1个急停开关；多个钮子开关；旋转开关；按键开关等

≤4 universal joysticks or ≤10-way proportional joysticks; ≤8 side key switches; 1 emergency stop switch; multiple toggle switches; rotary switch; push button switch, etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key; automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能（N≤8）；碰撞关机；倾斜关机；失重关机；显示屏（2.2寸、4.0寸、5.0寸）；有线控制；面板照明；视频监控；指纹识别

ID card; N to N function (N ≤ 8); collision shutdown; tilt shutdown; weightlessness shutdown; 2.2-inch display; 4.0-inch display; 5.0-inch display; wired control; panel lighting; video monitoring; fingerprint recognition

适配接收器

Adapter receiver

TCR-R100; TCR-R310; TCR-R700~740; TCR-R800

适配电池

Adapter battery

Li3600; Li2800S; BN2100

工作频率

Operating frequency

416MHz-419MHz; 433MHz-434MHz; 905MHz-908MHz; 2.4GHz



≈3kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic

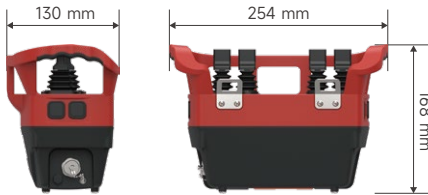


产品认证
Certification

TCT-C4X

IP65

防护等级
Protection Level



操作元件

Operating elements

≤4路比例摇杆；≤4个侧键开关；1个急停开关；多个钮子开关；旋转开关；按键开关等

≤4-way proportional rocker；≤4 side key switches；1 emergency stop switch；multiple toggle switches；rotary switch；push switch，etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key；automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能（N≤8）；碰撞关机；倾斜关机；失重关机；2.2寸显示屏；有线控制

ID card；N to N function（N≤8）；collision shutdown；tilt shutdown；weightlessness shutdown；2.2-inch display；wired control

适配接收器

Adapter receiver

TCR-R100；TCR-R310；TCR-R710

适配电池

Adapter battery

Li3600；Li2800S；BN2100

工作频率

Operating frequency

416MHz-419MHz；433MHz-434MHz；905MHz-908MHz；2.4GHz



≈1.4kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-C6X

IP65

防护等级
Protection Level



操作元件

Operating elements

≤6路比例摇杆；≤6个侧键开关；1个急停开关；多个钮子开关；旋转开关；按键开关等

≤6-way proportional rocker；≤6 side key switches；1 emergency stop switch；multiple toggle switches；rotary switch；push switch，etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key；automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能（N≤8）；碰撞关机；倾斜关机；失重关机；显示屏（2.2寸、4.0寸、5.0寸）；有线控制；面板照明；视频监控；指纹识别

ID card；N to N function（N≤8）；collision shutdown；tilt shutdown；weightlessness shutdown；2.2-inch display；4.0-inch display；5.0-inch display；wired control；panel lighting；video monitoring；fingerprint recognition

适配接收器

Adapter receiver

TCR-R100；TCR-R310；TCR-R700-740；TCR-R800

适配电池

Adapter battery

Li3600；Li2800S；BN2100

工作频率

Operating frequency

416MHz-419MHz；433MHz-434MHz；905MHz-908MHz；2.4GHz



≈2kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-C8X

IP65

防护等级
Protection Level



操作元件

Operating elements

≤8路比例摇杆；≤6个侧键开关；1个急停开关；多个钮子开关；旋转开关；按键开关等

≤8-way proportional rocker; ≤6 side key switches; 1 emergency stop switch; multiple toggle switches; rotary switch; push switch, etc.

标配功能

Standard functions

智能钥匙；自动关机

smart key; automatic shutdown

选配功能

Optional functions

身份识别卡；N对N功能 (N≤8)；碰撞关机；倾斜关机；失重关机；显示屏 (2.2寸、4.0寸、5.0寸)；有线控制；面板照明；视频监控；指纹识别

ID card; N to N function (N ≤ 8); collision shutdown; tilt shutdown; weightlessness shutdown; 2.2-inch display; 4.0-inch display; 5.0-inch display; wired control; panel lighting; video monitoring; fingerprint recognition

适配接收器

Adapter receiver

TCR-R100; TCR-R310; TCR-R700~740; TCR-R800

适配电池

Adapter battery

Li3600; Li2800S; BN2100

工作频率

Operating frequency

416MHz-419MHz; 433MHz-434MHz; 905MHz-908MHz; 2.4GHz



≈2.2kg

重量
Weight



-25°C ~ +70°C

工作温度
Operating temperature



工程塑料

Engineering plastic



产品认证

Certification

可配备显示屏

Available display screens



2.2寸显示屏 2.2-inch



2.8寸显示屏 2.8-inch



4.0寸显示屏 4.0-inch



5.0寸触摸显示屏 5.0-inch



7.0寸触摸显示屏 7.0-inch



8.0寸触摸显示屏 8.0-inch

TCT-D 系列 Series

- 多种特色开关可选择
A variety of special switches to choose from
- 双色注塑,抗震防摔
Dual-color injection molding, shock-resistant and drop-proof
- 高防护等级,直面雨水、油污,选配跌落自由关机
High protection level, facing rain and oil, optional drop-free shutdown
- 5200mAh大容量锂电池
5200mAh large-capacity lithium battery
- 单次充电工作60小时以上
Single charge works for more than 60 hours
- LCD显示屏, 阳光下可见
LCD display, visible in the sun



TCT-D16

IP66

防护等级
Protection Level



操作元件

Operating elements

按键+旋钮+摇杆; 最多2路旋转开关; 最多8路模拟量输出 (摇杆型)+1路电位器模拟量输出; 最多10路按键
Button + knob + rocker; up to 2 rotary switches; up to 8 analog outputs (rocker type) + 1 potentiometer analog output; up to 10 buttons

标配功能

Standard functions

智能钥匙; LCD显示; 自动关机
smart key; LCD display; automatic shutdown

选配功能

Optional functions

身份识别卡; LCD反馈
ID card; LCD feedback

适配接收器

Adapter receiver

TCR-R100; TCR-R300; TCR-R500; TCR-510;
TCR-R730; TCR-R740; TCR-R800

适配电池

Adapter battery

Li5200

工作频率

Operating frequency

416MHz-419MHz; 433MHz-434MHz



≈600g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-E10 Z

IP66

防护等级
Protection Level



操作元件
Operating elements

2个万向摇杆；15个单档按键；1个急停开关
2 universal joysticks; 15 single-shift buttons; 1 emergency stop switch

标配功能
Standard functions

LCD显示（支持二次开发）；自动关机
LCD display (support secondary development); automatic shutdown

适配接收器
Adapter receiver

TCR-R100; TCR-R300

适配电池
Adapter battery

Li3600; Li2800S

工作频率
Operating frequency

416MHz-419MHz; 433MHz-434MHz; 2.4GHz



≈800g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCT-E20

IP66

防护等级
Protection Level



操作元件
Operating elements

≤20个单档按键（带指示灯）；1个急停开关
≤20 single-shift buttons (with indicator lights); 1 emergency stop switch

标配功能
Standard functions

自动关机
Standard function: automatic shutdown

选配功能
Optional functions

1对N功能；N对1功能；N对N功能 (N≤8)
1 to N function; N to 1 function; N to N function (N≤8)

适配接收器
Adapter receiver

TCR-R100; TCR-R300; TCR-R500; TCR-R700

适配电池
Adapter battery

Li3600; Li2800S

工作频率
Operating frequency

416MHz-419MHz; 433MHz-434MHz; 2.4GHz



≈600g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

可选配件

Optional accessories

电池参数

Battery parameters



BN2100



Li3600



Li2800S



Li2400

类型
Battery type

镍氢电池
NiMH battery

锂电池
Lithium battery

锂电池 ❄️
Lithium battery

锂电池
Lithium battery

标称容量
Battery capacity

2100 mAh

3600 mAh

2800 mAh

2400 mAh

标称电压
Voltage

6.0 V

7.4 V

7.2 V

3.7 V

充电温度
Charging temperature

0°C ~ +40 °C

0°C ~ +45 °C

0°C ~ +45 °C

0°C ~ +45 °C

工作温度
Operating temperature

-20°C ~ +50 °C

-20°C ~ +60 °C

-40°C ~ +60 °C

-20°C ~ +60 °C

存储温度
Storage temperature

-20°C ~ +50 °C

-10°C ~ +45 °C

-40°C ~ +60 °C

-20°C ~ +60 °C

电池充电器

Battery charger



L0L02S



L0L03P



L0N5D/A



L0N5A-4

适用对象
Applicable objects

Li3600 / Li2800S

Li2400

BN2100

B08、B12、B16、
B20、B16FK

输入电压
Input voltage

10-30V DC

10-30V DC

12-30V DC
100-240V AC

100-240V AC

工作温度
Operating temperature

0°C ~ +40 °C

0°C ~ +45 °C

0°C ~ +40 °C

0°C ~ +45 °C

安全固定带

Safety harness



肩带
Shoulder straps



腰带
Waist belts



双肩背带
Backpack straps

TCR-R100

原型号/Former model: TCR-Mini

IP66

防护等级
Protection Level



控制功能 Control function	1组急停继电器; ≤2路CAN总线通信; 1路RS 485(RTU) 1 set of emergency stop relay; ≤2 CAN bus communications; 1 RS 485 (RTU)
继电器容量 Relay capacity	5A 250VAC
选配功能 Optional functions	1对N功能; N对1功能; N对N功能 (N≤8); 数据记录仪; 有线控制 1 to N function; N to 1 function; N to N function (N≤8); data logger; wired control
工作频率 Working frequency	416MHz-419MHz; 430MHz-434MHz; 470MHz-495MHz; 2.4G
支持协议 Support protocols	CAN2.0, CANOPEN, Modbus RS485 RTU总线 CAN2.0, CANOPEN, Modbus RS485 RTU bus
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10~30V DC
额定功率 Rated power	≤6W



≈260g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R200

原型号/Former model: TCR-A12

IP66

防护等级
Protection Level



控制功能 Control function	≤12个功能继电器; 1组急停继电器 ≤12 functional relays; 1 set of emergency stop relay
继电器容量 Relay capacity	5A 250VAC
选配功能 Optional functions	1对2功能; 2对1功能; 2对2功能 1 to 2 function; 2 to 1 function; 2 to 2 function
工作频率 Working frequency	430MHz-433MHz; 475MHz-495MHz
通信距离 Communication distance	≥80 m
工作电压 Working voltage	10~30V DC; 48V/220V/230V AC
额定功率 Rated power	≤6W



≈750g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R300

原型号/Former model: TCR-B08

IP65

防护等级
Protection Level



控制功能 Control function	≤12个功能继电器；1组急停继电器；1路CAN总线 ≤12 functional relays; 1 set of emergency stop relays; 1 CAN bus
继电器容量 Relay capacity	5A 250VAC (功能继电器)；8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
选配功能 Optional functions	1对N功能；N对1功能；N对N功能 (N≤8)；数据记录仪 1 to N function; N to 1 function; N to N function (N≤8); data logger
工作频率 Working frequency	416MHz-419MHz；433MHz-434MHz；2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10~30V DC；42-240V AC；220/380V AC
额定功率 Rated power	≤6W



≈1.4Kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R310

原型号/Former model: TCR-C64；TCR-C80；
TCR-C4X；TCR-C6X；
TCR-C8X

IP65

防护等级
Protection Level



控制功能 Control function	≤10路功能继电器；1组急停继电器；≤2路CAN总线通信 ≤10 functional relays; 1 set of emergency stop relays; ≤2 CAN bus communications
继电器容量 Relay capacity	8A 250VAC
选配功能 Optional functions	1路DeviceNet总线；N对N功能 (N≤8)；数据记录仪；有线控制 1 DeviceNet bus; N to N function (N≤8); data logger; wired control
工作频率 Working frequency	416MHz-419MHz；430MHz-434MHz；905MHz-908MHz；2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10~30V DC；42-240V AC
额定功率 Rated power	≤6W



≈1.4kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



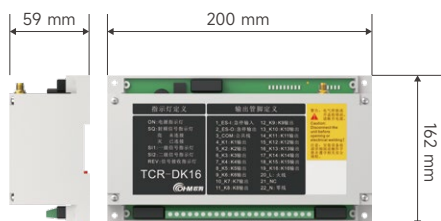
工程塑料
Engineering plastic



产品认证
Certification

TCR-R400

原型号/Former model: TCR-DK16



控制功能 Control function	≤16个功能继电器；1组急停继电器 ≤16 functional relays; 1 set of emergency stop relay
继电器容量 Relay capacity	5A 250VAC (功能继电器)；8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
选配功能 Optional functions	1对2功能；2对1功能；2对2功能 1 to 2 function; 2 to 1 function; 2 to 2 function
工作频率 Working frequency	430MHz-433MHz；475MHz-495MHz
通信距离 Communication distance	≥80 m
工作电压 Working voltage	42-240V AC
额定功率 Rated power	≤6W



≈800g
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



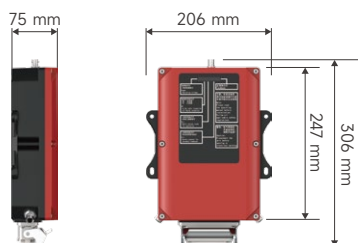
产品认证
Certification

TCR-R500

原型号/Former model: TCR-B12；TCR-B16；
TCR-B20

IP65

防护等级
Protection Level



控制功能 Control function	≤20个功能继电器；1组急停继电器 ≤20 functional relays; 1 set of emergency stop relay
继电器容量 Relay capacity	5A 250VAC (功能继电器)；8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
选配功能 Optional functions	1对N功能；N对1功能；N对N功能 (N≤8)；数据记录仪 1 to N function; N to 1 function; N to N function (N≤8); data logger
工作频率 Working frequency	416MHz-419MHz；433MHz-434MHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10-30V DC；42-240V AC；220/380V AC
额定功率 Rated power	≤6W



≈2kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R510

原型号/Former model: TCR-B16FK

IP65

防护等级
Protection Level



控制功能

≤16个功能继电器；1组急停继电器；2路模拟量输入、输出；4路开关量输入

Control function

≤16 functional relays; 1 set of emergency stop relays; 2 analog input and output; 4 switch input

继电器容量

5A 250VAC/30VDC (阻性负载)

Relay capacity

5A 250VAC/30VDC (resistive load)

选配功能

1对N功能；N对1功能；N对N功能 (N≤8)；数据记录仪

Optional functions

1 to N function; N to 1 function; N to N function (N≤8); data recorder

工作频率

416MHz-419MHz; 433MHz-434MHz; 2.4GHz

Working frequency

通信距离

≥100 m

Communication distance

工作电压

10~30V DC; 42~240V AC; 220/380V AC

Working voltage

额定功率

≤6W

Rated power



≈2Kg

重量
Weight



-25°C ~ +70°C

工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R520

原型号/Former model: TCS-B08FIX

IP65

防护等级
Protection Level



控制功能

≤10个开关量输入；≤10个功能继电器；1组急停继电器；1路CAN总线；2路模拟量输入输出

Control function

≤10 switch inputs; ≤10 function relays; 1 set of emergency stop relays; 1 CAN bus; 2 analog input and output

标配功能

单向通信

Relay capacity

one-way communication

选配功能

1对N功能；N对1功能；N对N功能 (N≤8)；双向通信

Standard function

1 to N function; N to 1 function; N to N function (N≤8); two-way communication

工作频率

416MHz-419MHz; 433MHz-434MHz; 2.4GHz

Working frequency

通信距离

≥100 m

Communication distance

工作电压

42~240V AC; 10~30V DC; 220/380 V AC

Working voltage

额定功率

≤6W

Rated power



≈2kg

重量
Weight



-25°C ~ +70°C

工作温度
Operating temperature



工程塑料
Engineering plastic



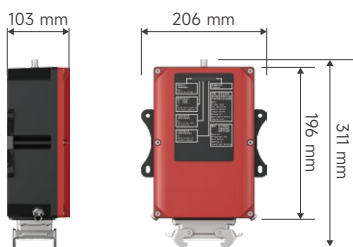
产品认证
Certification

TCR-R700

原型号/Former model: TCR-C18; TCR-C26;
TCR-C32; TCR-C64

IP65

防护等级
Protection Level



控制功能 Control function	≤32个功能继电器; 1组急停继电器 ≤32 functional relays; 1 set of emergency stop relays
继电器容量 Relay capacity	5A 250VAC (功能继电器); 8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
选配功能 Optional functions	4路模拟量输出 (0-10V或0-20mA); 1对N功能; N对1功能; N对N功能 (N≤8); 数据记录仪; 有线控制; CAN总线 4 analog outputs (0-10V or 0-20mA); 1 to N function; N to 1 function; N to N function (N≤8); data logger; wired control; CAN bus
工作频率 Working frequency	416MHz-419MHz; 433MHz-434MHz; 2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10-30V DC; 42-240V AC; 220/380V AC
额定功率 Rated power	≤10W



≈2.5kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



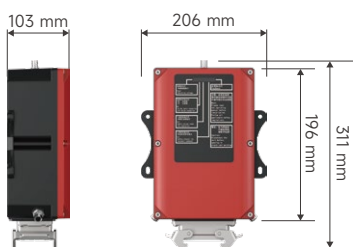
产品认证
Certification

TCR-R710

原型号/Former model: TCR-C4X; TCR-C6X;
TCR-C8X

IP65

防护等级
Protection Level



控制功能 Control function	≤19个功能继电器; 1组急停继电器; ≤8*2路PWM通道; 2路模拟量输出 (0-10V或0-20mA) ≤19 functional relays; 1 set of emergency stop relays; ≤8*2 PWM channels; 2 analog outputs (0-10V or 0-20mA)
继电器容量 Relay capacity	5A 250VAC (功能继电器); 8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
选配功能 Optional functions	8路开关量反馈; 2路模拟量反馈; 1对N功能; N对1功能; N对N功能 (N≤8); 数据记录仪; 有线控制; CAN总线 8-way switch feedback; 2-way analog feedback; 1 to N function; N to 1 function; N to N function (N≤8); data recorder; wired control; CAN bus
工作频率 Working frequency	416MHz-419MHz; 430MHz-434MHz; 905MHz-908MHz; 2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10-30V DC; 42-240V AC; 220/380V AC
额定功率 Rated power	≤10W



≈2.5kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R720

原型号/Former model: TCR-C64; TCR-C80;
TCR-C4X; TCR-C6X;
TCR-C8X

IP65

防护等级
Protection Level



控制功能 Control function	≤19路功能继电器; 1组急停继电器; 1路ProfiBus-DP通信 ≤19 functional relays; 1 set of emergency stop relays; 1 ProfiBus-DP communication
继电器容量 Relay capacity	5A 250VAC (功能继电器); 8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
选配功能 Optional functions	8路开关量反馈; 2路模拟量反馈; 1对N功能; N对1功能; N对N功能 (N≤8); 数据记录仪; 有线控制 8-way switch feedback; 2-way analog feedback; 1 to N function; N to 1 function; N to N function (N≤8); data recorder; wired control
工作频率 Working frequency	416MHz-419MHz; 430MHz-434MHz; 905MHz-908MHz; 2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10~30V DC; 42-240V AC; 220/380V AC
额定功率 Rated power	≤6W



≈2.5kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R730

原型号/Former model: TCR-C64; TCR-C80;
TCR-C4X; TCR-C6X;
TCR-C8X

IP65

防护等级
Protection Level



控制功能 Control function	≤19路功能继电器; 1组急停继电器; 1路ProfiNet通信; 1路EtherNet通信 ≤19 function relays; 1 emergency stop relay; 1 ProfiNet communication; 1 EtherNet communication
继电器容量 Relay capacity	5A 250VAC (功能继电器); 8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
选配功能 Optional functions	8路开关量反馈; 2路模拟量反馈; 1对N功能; N对1功能; N对N功能 (N≤8); 数据记录仪; 有线控制 8-way switch feedback; 2-way analog feedback; 1 to N function; N to 1 function; N to N function (N≤8); data recorder; wired control
工作频率 Working frequency	416MHz-419MHz; 430MHz-434MHz; 905MHz-908MHz; 2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10~30V DC; 42-240V AC; 220/380V AC
额定功率 Rated power	≤6W



≈2.5kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

TCR-R740

原型号/Former model: TCR-C64; TCR-C80;
TCR-C6X; TCR-C8X

IP65

防护等级
Protection Level



≈2.5kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

控制功能 Control function	≤49个功能继电器；1组急停继电器；2路模拟量输出（0-10V或0-20mA）；1路CAN总线 ≤49 functional relays; 1 set of emergency stop relays; 2 analog outputs (0-10V or 0-20mA); 1 CAN bus
继电器容量 Relay capacity	5A 250VAC
选配功能 Optional functions	8路开关量反馈；2路模拟量反馈；1对N功能；N对1功能；N对N功能（N≤8）；数据记录仪；有线控制 8-way switch feedback; 2-way analog feedback; 1 to N function; N to 1 function; N to N function (N≤8); data recorder; wired control
工作频率 Working frequency	416MHz-419MHz; 430MHz-434MHz; 905MHz-908MHz; 2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10~30V DC; 42-240V AC; 220/380V AC
额定功率 Rated power	≤10W
连接方式 Connection method	重载连接器HAN32/HAN50 Heavy-duty connector HAN32/HAN50

TCR-R800

原型号/Former model: TCR-N+; TCR-C64;
TCR-C80; TCR-C6X;
TCR-C8X

IP65

防护等级
Protection Level



≈2.5kg
重量
Weight



-25°C ~ +70°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

控制功能
Control function

≤4路继电器输出; 1组急停输出; 2路CAN总线通信; 另外可从下方功能板中再任意安装其中至多4块功能板
≤4 relay outputs; 1 set of emergency stop output; 2 CAN bus communications; in addition, up to 4 function boards can be installed from the function board below

继电器板: ≤10路继电器输出; 模拟量板: ≤6路模拟量输出 (-10~+18V的任意输出)

反馈板: ≤8路开关量输入; ≤4路模拟量输入; PWM板: ≤8路PWM输出; ≤2路模拟量输出 (0-10V; 0-20mA)

总线板: DeviceNet; ProfiNet; EtherNet; Profibus-DP

Relay board: ≤10 relay outputs; Analog board: ≤6 analog outputs (-10~+18V any output); Feedback board: ≤8 switch inputs; ≤4 analog inputs
PWM board: ≤8 PWM outputs; ≤2 analog outputs (0-10V; 0-20mA); Bus board: DeviceNet; ProfiNet; EtherNet; Profibus-DP

继电器容量 Relay capacity	5A 250VAC
选配功能 Optional functions	小欧助手; 云平台; 1对N功能; N对1功能; N对N功能 (N≤8); 数据记录仪; 有线控制 Xiaou assistant; cloud platform; 1 to N function; N to 1 function; N to N function (N≤8); data logger; wired control
工作频率 Working frequency	416MHz-419MHz; 430MHz-434MHz; 905MHz-908MHz; 2.4GHz
通信距离 Communication distance	≥100 m
工作电压 Working voltage	10~30V DC; 100-240V AC
额定功率 Rated power	≤30W
连接方式 Connection method	重载连接器HAN32/HAN50 Heavy-duty connector HAN32/HAN50

FYF 100(A)



IP65

防护等级
Protection Level

操作元件 Operating elements	10个双速按键；1个急停开关 10 dual-speed buttons; 1 emergency stop switch
标配功能 Standard functions	智能钥匙；自动关机；1个急停开关 smart key; automatic shutdown; 1 emergency stop switch
选配功能 Optional functions	身份识别卡；1对N功能；N对1功能；N对N功能 (N≤8) ID card; 1 to N function; N to 1 function; N to N function (N≤8)
适配接收器 Adapter receiver	FYS100(A)
适配电池 Adapter battery	AA镍氢电池组 AA NiMH battery pack
工作频率 Operating frequency	416MHz-419MHz; 433MHz-434MHz



安标证号
Safety certificate number
MFA210063



防爆证号
Explosion-proof certificate number
CQEx20.1301



≈400g
重量
Weight



0°C ~ +40°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

FYF 100(B)

IP65

防护等级
Protection Level



操作元件 Operating elements	2个万向摇杆；6个侧键开关；1个急停开关；多个钮子开关；1个旋转开关 2 universal rockers; 6 side switches; 1 emergency stop switch; multiple toggle switches; 1 rotary switch
标配功能 Standard functions	智能钥匙；自动关机 Smart key; Automatic shutdown
选配功能 Optional functions	身份识别卡；1对N功能；N对1功能；N对N功能 (N≤8)；碰撞关机；倾斜关机；失重关机 ID card; 1 to N function; N to 1 function; N to N function (N≤8); collision shutdown; tilt shutdown; weightlessness shutdown
适配接收器 Adapter receiver	FYS100(B)、FYS100(C)
适配电池 Adapter battery	EX1800
工作频率 Operating frequency	416MHz-419MHz; 433MHz-434MHz



安标证号
Safety certificate number
MFA210062



防爆证号
Explosion-proof certificate number
CQEx20.1303



≈2kg
重量
Weight



0°C ~ +40°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification

FYF 100(C)

IP65 | 防护等级
Protection Level



操作元件 Operating elements	2个万向摇杆；8个侧键开关；1个急停开关；多钮子开关；多个反馈指示灯 2 universal joysticks; 8 side switch; 1 emergency stop switch; multi-button switch; multiple feedback indicator lights
标配功能 Standard functions	智能钥匙；自动关机 smart key; automatic shutdown
选配功能 Optional functions	身份识别卡；1对N功能；N对1功能；N对N功能（N≤8）；碰撞关机；倾斜关机；失重关机 ID card; 1 to N function; N to 1 function; N to N function (N≤8); collision shutdown; tilt shutdown; weightlessness shutdown
适配接收器 Adapter receiver	FYS100(C)
适配电池 Adapter battery	EX1800
工作频率 Operating frequency	416MHz-419MHz; 433MHz-434MHz



安标证号
Safety certificate number
MFA210064



防爆证号
Explosion-proof certificate number
CQEx20.1302



≈3kg
重量
Weight



0°C ~ +40°C
工作温度
Operating temperature



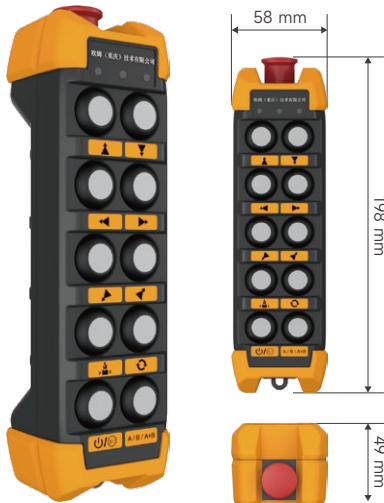
工程塑料
Engineering plastic



产品认证
Certification

FYF 100(D)

IP66 | 防护等级
Protection Level



操作元件 Operating elements	10个双速按键；1个急停开关 10 dual-speed buttons; 1 emergency stop switch
标配功能 Standard functions	一键配对；开机访问码 One-touch pairing; Power-on access code
选配功能 Optional functions	1对2功能；2对1功能；2对2功能 1 to 2 function; 2 to 1 function; 2 to 2 function
适配接收器 Adapter receiver	TCR-R500
适配电池 Adapter battery	2节5号干电池 2 AA batteries
工作频率 Operating frequency	430MHz-433MHz; 475MHz-495MHz



防爆证号
Explosion-proof certificate number
CQEx24.0554X



≈350g
重量
Weight



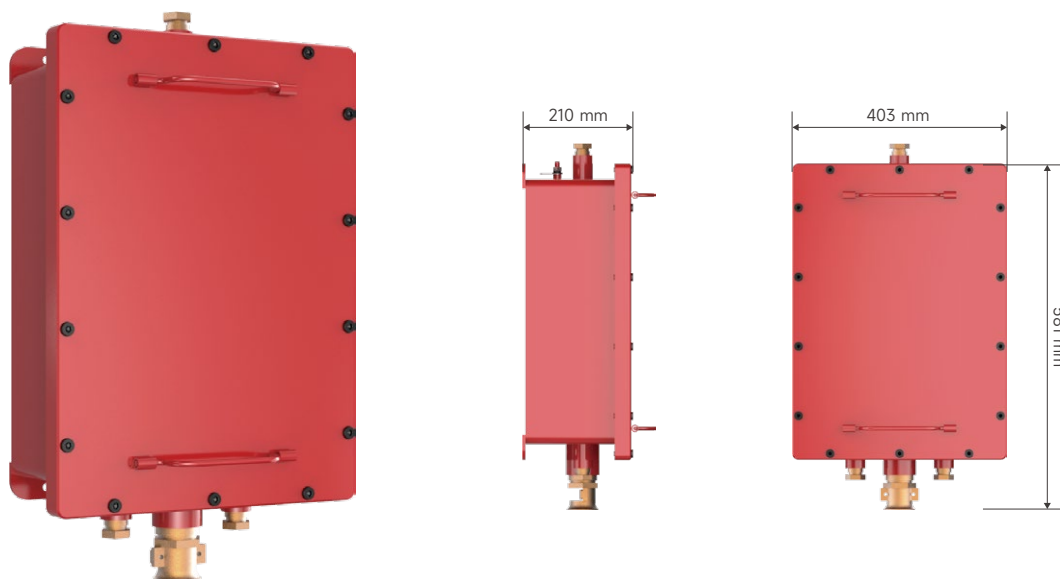
-20°C ~ +55°C
工作温度
Operating temperature



工程塑料
Engineering plastic



产品认证
Certification



FYS 100(A)

IP54

防护等级
Protection Level

控制功能 Control function	≤20个功能继电器；1组急停继电器 ≤20 functional relays; 1 set of emergency stop relay
选配功能 Optional functions	1对N功能；N对1功能；N对N功能 (N≤8) 1 to N function; N to 1 function; N to N function (N≤8)
继电器容量 Relay capacity	5A 250VAC (功能继电器)；8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
工作频率 Operating frequency	416MHz-419MHz；433MHz-434MHz
工作电压 Working voltage	127V AC
连接方式 Connection method	线缆 cable
额定功率 Rated power	≤6W
通信距离 Communication distance	≥100m



安标证号
Safety certificate number
MFE210098



防爆证号
Explosion-proof certificate number
CQEx20.1791



0°C ~ +40°C
工作温度
Operating temperature



Q235A钢
Q235A Steel



产品认证
Certification

FYS 100(B)

IP54

防护等级
Protection Level

控制功能 Control function	≤32个功能继电器；1组急停继电器；4路模拟量输出；1路CAN总线通信 ≤32 functional relays; 1 set of emergency stop relays; 4 analog outputs; 1 CAN bus communication
选配功能 Optional functions	1对N功能；N对1功能；N对N功能 (N≤8) 1 to N function; N to 1 function; N to N function (N≤8)
继电器容量 Relay capacity	5A 250VAC (功能继电器)；8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
工作频率 Operating frequency	416MHz-419MHz；433MHz-434MHz
工作电压 Working voltage	127V AC
连接方式 Connection method	线缆 cable
额定功率 Rated power	≤10W
通信距离 Communication distance	≥100m



安标证号
Safety certificate number
MFE210099



防爆证号
Explosion-proof certificate number
CQEx20.1793



0°C ~ +40°C
工作温度
Operating temperature



Q235A钢
Q235A Steel



产品认证
Certification

FYS 100(C)

IP54

防护等级
Protection Level

控制功能 Control function	≤19个功能继电器；1组急停继电器；2路模拟量输出；2路CAN总线通信；1路ProfiNet通信 ≤19 functional relays; 1 set of emergency stop relays; 2 analog outputs; 2 CAN bus communications; 1 ProfiNet communication
选配功能 Optional functions	1对N功能；N对1功能；N对N功能 (N≤8) 1 to N function; N to 1 function; N to N function (N≤8)
继电器容量 Relay capacity	5A 250VAC (功能继电器)；8A 250VAC (急停继电器) 5A 250VAC (functional relay); 8A 250VAC (emergency stop relay)
工作频率 Operating frequency	416MHz-419MHz；433MHz-434MHz
工作电压 Working voltage	127V AC
连接方式 Connection method	线缆 cable
额定功率 Rated power	≤10W
通信距离 Communication distance	≥100m



安标证号
Safety certificate number
MFE210097



防爆证号
Explosion-proof certificate number
CQEx20.1792



0°C ~ +40°C
工作温度
Operating temperature



Q235A钢
Q235A Steel



产品认证
Certification

LED照明系统 TCS Series Data Logging Mode



LED照明系统可用于欧姆所有TCS-C系列发射器系统。
LED illumination system could be used in all the TCS-C series transmitter system.



LED照明系统提供足够的环境亮度，避免误操作。
LED illumination system provides sufficient ambient brightness to avoid wrong operations.



指纹识别系统 Fingerprint Recognition System



用户指纹识别，拒绝陌生人员操作
User fingerprint recognition, rejecting operation by strangers.



指纹库密码加密，安全可靠
The fingerprint library password is encrypted, safe and reliable.



LED光学指示，清晰直观识别结果
LED optical indication, clear and intuitive recognition results.



自带防护罩，防尘防水PLUS
Built-in protective cover, dustproof and waterproof PLUS.



TCS系统数据记录器 TCS Series Data Logging Mode



162 x 80 x 65mm
安装尺寸 (Installation Size)



精确到0.1秒的数据记录
Data Recording Accurate to 0.1 Second



多种数据记录模式
Multiple Data Logging Modes



数据断电保存功能
Data power-off saving function



低成本的升级改造
Low-cost Upgrades



用户身份认证 (可选)
User Authentication (Optional)



便捷的数据读取及查看功能
Convenient Data Reading and Viewing Functions



连接方式
插头链接 (CAN接口)



防护等级
Protection Level

IP65

工业云平台 Industrial Cloud Platform

此产品依托于插板型接收器。其集成的4G模块，使其具备强大的通信能力：可与云平台无缝对接，实现远程监控与命令下发。

This product relies on a plug-in type receiver. Its integrated 4G module gives it powerful communication capabilities: it can seamlessly connect with the cloud platform to achieve remote monitoring and command issuance.



远程程序更新
Remote program update

行业现状：传统的程序更新方式通常需要现场操作，这既增加了人力成本，又降低了工作效率。

解决方案：欧姆智能遥控器支持远程更新程序功能。您可以轻松上传新的程序版本，并一键推送到指定的遥控器上。

Current state of the industry: Traditional program updates usually require on-site operations, which increases labor costs and reduces work efficiency.

Solution: OHM smart remote control supports remote program updates. You can easily upload new program versions and push them to the specified remote control with one click.



生产数据分析
Production data analysis

行业现状：传统的数据收集方式往往繁琐、不准确，且难以进行深度分析，这导致企业无法充分利用数据价值和优化运营决策。

解决方案：通过可视化图表和看板大屏，用户可以直观地了解设备的运行状况、使用效率、设备故障等信息。

Current state of the industry: Traditional data collection methods are often cumbersome, inaccurate, and difficult to conduct in-depth analysis, which prevents companies from fully utilizing the value of data and optimizing operational decisions.

Solution: Through visual charts and large screens, users can intuitively understand the operating status, usage efficiency, equipment failures and other information of the equipment.



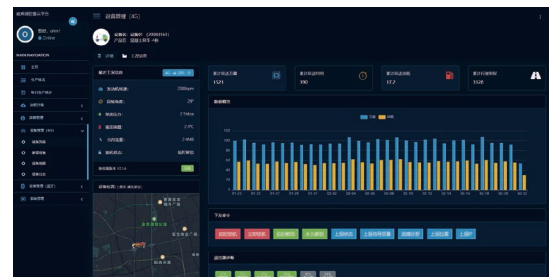
远程命令下发
Remote command issuance

行业现状：在许多行业中，尤其是机械租赁、设备出租等领域，设备的远程控制与管理方面具备困难。

解决方案：您可以轻松地对设备进行远程锁机、管理，确保设备在不受控的情况下无法被使用。

Current state of the industry: In many industries, especially in the fields of machinery leasing and equipment rental, remote control and management of equipment are difficult.

Solution: You can easily remotely lock and manage the equipment to ensure that the equipment cannot be used without control.



TCS系统可增设功能

Additional Functions of TCS

安全关机功能

Safe Shutdown Function

可选功能，仅适用于发射系统

The functions are optional and only available on the transmitter system.

撞击关机功能
Shut down after impacting



当发射系统受到外界的撞击之后，发射系统将会自动关闭。
When the transmitter system receives an impact from the outside, the transmitter system will automatically shut down.

失重关机功能
Shut down in weightless state



当自动检测到发射系统处于失重状态后，发射系统立即自动关闭。
When detect that the transmitter system is in a weightless state, the transmitter system will automatically shut down.

翻滚关机功能
Shut down after rolling



当发射系统自动检测到发生翻滚的情况后，发射系统立即自动关闭。
When the transmitter system is detected rolling, the transmitter system will automatically shut down.

以上特性可使遥控发射系统在某些特定的紧急情况下迅速关机，从而避免可能发生的误操作

The above features allow the remote control transmitting system to shut down quickly in certain emergency situations, thereby avoiding possible misoperations.

一对多功能

One to Multiple Function

一对多功能的发射系统可以通过一个发射器同时控制多台接收器，通过发射器上的选择开关实现。

One-to-multiple function transmitter system, multiple receivers can be controlled simultaneously by one transmitter, which is achieved through the selection switch on the transmitter.

这个选择开关的位置定义如：

The position of this selector switch is defined as follows:

控制起重机A
Control Crane A

A

控制两台起重机联动
Control the linkage of two cranes

A+B

控制起重机B
Control Crane B

B

多对多功能

Multiple to Multiple Function

任意一个发射器都可单独控制任意1个或同时控制多个接收器，通过“接管-释放”实现。

Any transmitter can control any one or multiple receivers at the same time through "take over and release".

释放操作权
Release Operating Rights



- 按下发射系统1或者发射系统2上的“释放”按钮。
- 其它的发射系统才有可能取得起重机的操作权。

- Pressing the "release" button on transmitter system 1 or transmitter system 2.
- In this way, other transmitter systems can obtain the right to operate the crane.

接管操作权
Take over operating rights



- 将发射系统1或发射系统2的旋转开关拨到相应位置("A"或"A+B"或"B")
- 或按下此发射系统上的“接管”按钮，也取得此台起重机的操作权。

- Adjust the rotary switch of transmitter system 1 or transmitter system 2 to the corresponding position ("A" or "A+B" or "B").
- Or press the "Take-over" button on the transmitter system to gain control of the crane.

特殊案例(主副控功能) | Special Case (Main and Secondary Control Function)

发射系统1为主控，发射系统2为副控，主控发射系统上带(A、A+B、B)转换开关。

正常模式发射系统1独立控制起重机A，发射系统2独立控制起重机B。

Transmitter system 1 is the main control, and transmitter system 2 is the sub-controller.

The main control transmitter system has (A, A+B, B) conversion switches.

In normal mode, transmitter system 1 independently controls crane A, and transmitter system 2 independently controls crane B.

如果主控制系统要取得起重机B的操作权，必须执行下面的操作：

If the main control system wants to obtain the operating rights of crane B, it must perform the following operations:

- 1、按下发射系统2的“释放”按钮；
Step 1. Press the "release" button of transmitter 2;
- 2、为避免操作者出错。请关闭发射系统2；
Step 2. To avoid operator errors, please turn off the transmitter system 2;
- 3、启动发射系统1；
Step 3. Start transmitter system 1;
- 4、把发射系统1上的旋转开关拨至“A+B”或“B”；
Step 4. Turn the rotary switch on transmitter system 1 to "A+B" or "B";
- 5、按下发射系统1上的“接管”按钮。
Step 5. Press the "Take-over" button on transmitter system 1.

这样，发射系统1就具备了操作两台起重机的功能。

In this way, the transmitter system 1 has the function of operating two cranes.

身份识别功能

Identity Recognition Function

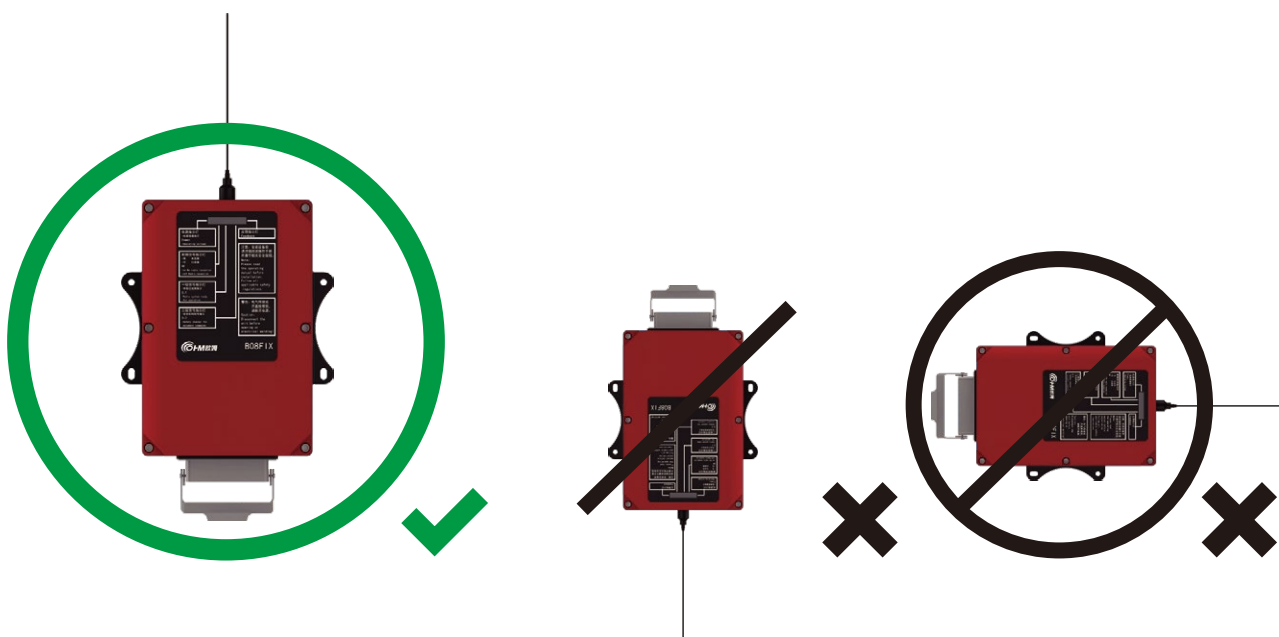
TCS-B、TCS-C系列均可配备
TCS-B and TCS-C series can be equipped with



- 只有具有被授权身份识别卡的人员才可以通过此卡启动发射器，极大增强了产品使用的安全性
- Only personnel with an authorized identification card can activate the transmitter through this card.

TCS系列接收系统安装方式

TCS Series Receiving System Installation Method



售后服务

After-sales service

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