



# CWGP-K11无线电子手轮

CWGP-K11 Wireless electronic MPG handwheel

## 说明书

Manual



The Manual For Fully functional Wireless Handle for Engraving machine  
使用本产品之前，请先阅读本手册，并妥善保存手册作日后参考。



## **典型应用：数控机床、数控雕铣机、加工中心**

applications: CNC machine tools,CNC engraving and milling machine, machining center

该产品是数控机床上配套使用的手摇脉冲发生器 (Manual Pulse Generator), 已广泛应用于数控机床、数控车床、加工中心、数控雕铣机等领域。该产品采用无线传输技术, 省去了传统的弹簧线连接, 减少因电缆引起的设备故障, 免去电缆拖动, 粘上油等污染, 操作更方便。该产品套装包括接收器和无线电子手轮。接收器通过16芯电缆线与设备连接, 电子手轮 (手摇脉冲发生器) 通过无线传输技术与接收器进行连接通讯。操作者手持手轮, 可摆脱弹簧线的连接束缚, 自由走动。针对大型的龙门铣、数控车床、行走机床、切割等应用, 更是带来极大的方便性, 提高工作效率。

the product is CNC machine tools supporting the use of manual pulse generator, has been widely used in CNC machine tools, CNC lathes, machining centers, CNC engraving and milling machine, such as fields. The product uses wireless transmission technology, eliminating the need for the traditional spring line connection, reduce the cable caused by equipment failure, replacing the cable drag, sticky, mail and other pollution, more convenient operation. The package includes a receiver and a wireless electronic handwheel, through the receiver is connected to the 16 core cable and equipment, electronic handwheel through wireless transmission technology and the receiver of communication connection. Operator hand wheel, can get rid of the shackles of the spring line, freedom to move around. For large-scale Longmen milling. CNC lathe, machine tools, cutting and other applications, but also bring great convenience, improve work efficiency

## ● 产品系列 The product model

产品型号：CWGP-K11

Model: CWGP-K11

## ● 支持系统 Support system

适用于德国西门子（SIEMENS）、日本三菱（MITSUBISHI）、法那科（FANUC）、西班牙发格（FAGOR）、法国NUM、台湾宝元、新代等数控系统

Apply to SIEMENS, MITSUBISHI, FANUC, FAGOR, NUM, SYNTEC CNC.....  
Numerical Control System

## ● 产品特点 Product features

- 拥有11个自定义按键输出，对应接收器上11个光耦继电器输出
- 支持显示坐标清零
- 无线ISM频段，433MHZ, 10DB发射功率，-98DB接收灵敏度，无障碍距离50米
- 抗干扰设计，稳定可靠，同房间使用32套无线手轮，相互不影响
- 低功耗设计，2节AA电池，正常使用30天
- 具有轴选功能，倍率选择功能，具有LCD显示清零，LCD能显示X, Y, Z, 4, 5, 6轴的增量坐值（同时显示3个轴的坐标）
- 采用合金编码器，性能稳定可靠，手感好，齿位清晰
- Support 11 custom button output, the corresponding receiver 11 photoMOS relay output
- Support LCD display coordinates clear.
- Wireless ISM frequency band, 433 MHz, 10DB Transmit power, -98DB Receiver sensitivity, interference free within 50m
- Anti-interference design, stable and reliable, up to 32 sets of wireless remote control MPG in use simultaneously
- Low-power design, 2 AA batteries lasting 30 days in normal operation
- Having a shaft selection function, magnification selection function
- With LCD display cleared, in function, LCD can display X, Y, Z, 4, 5, 6 axis coordinate value increment
- The alloy is stable and reliable, the performance of the encoder, feel good, clear teeth

采用无线传输技术，操作方便，省去了传统的弹簧线连接，减少了电缆故障率，免去电缆拖动，粘上油等污染。

Using wireless transmission technology, convenient operation, eliminating the traditional spring wire connection, reduce the failure rate of cable and remove cable drag viscous oil pollution



## ● 产品功能描述 The product function description

















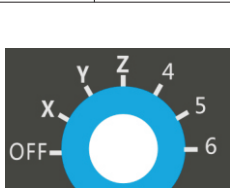
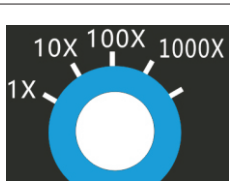
功能描述: 显示屏同时显示3个轴的增量坐标, 信号强度, 电量信息, 11个自定义功能按键, 合金编码器。

Function Description: display screen can display the 3 axis of the incremental coordinates, signal strength, power information, 10 function buttons, alloy encoder

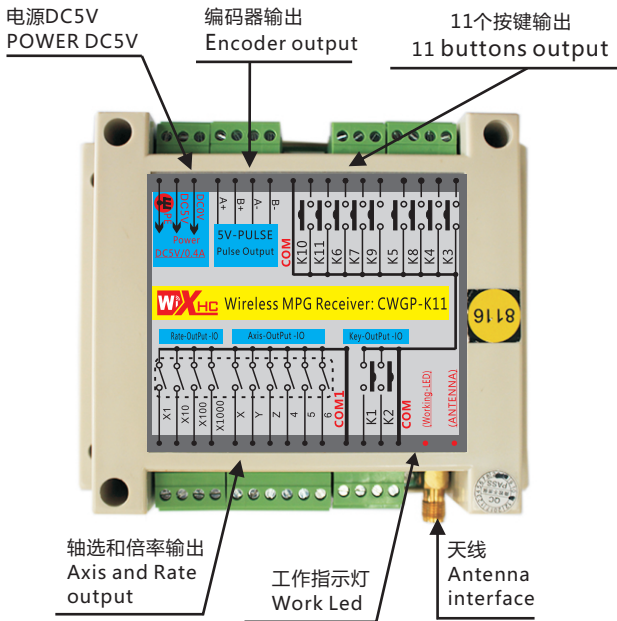


## ● 按键功能描述 The buttons function description

	<p>按下按钮,接收器K1继电器输出,松开按钮,输出关闭 Press the button,receiver K1 relay output,Release the button to close the output</p>
	<p>单独按下按钮,接收器K2继电器输出,松开按钮,输出关闭; 按下使能键后再按下按钮,显示屏坐标清零 Press the button alone,receiver K2 relay output, Release the button to close the output; Press  and  button,the coordinates clear</p>
	<p>按下按钮,接收器K3继电器输出,松开按钮,输出关闭 Press the button,receiver K3 relay output,Release the button to close the output</p>
	<p>按下按钮,接收器K4继电器输出,松开按钮,输出关闭 Press the button,receiver K4 relay output,Release the button to close the output</p>
	<p>按下按钮,接收器K5继电器输出,松开按钮,输出关闭 Press the button,receiver K5 relay output,Release the button to close the output</p>
	<p>按下按钮,接收器K6继电器输出,松开按钮,输出关闭 Press the button,receiver K6 relay output,Release the button to close the output</p>
	<p>按下按钮,接收器K7继电器输出,松开按钮,输出关闭 Press the button,receiver K7 relay output,Release the button to close the output</p>

	<p>按下按钮,接收器K8继电器输出,松开按钮,输出关闭 Press the button,receiver K8 relay output,Release the button to close the output</p>
	<p>按下按钮,接收器K9继电器输出,松开按钮,输出关闭 Press the button,receiver K9 relay output,Release the button to close the output</p>
	<p>按下按钮,接收器K10继电器输出,松开按钮,输出关闭 Press the button,receiver K10 relay output,Release the button to close the output</p>
	<p>按下按钮,接收器K11继电器输出,松开按钮,输出关闭 Press the button,receiver K11 relay output,Release the button to close the output</p>
	<p>按下使能按键,轴选开关输出有效;脉冲输出有效; Press the enable button, the axis selection switch output is valid;pulse output is valid</p>
	<p>轴选择 : OFF : 关闭轴选功能 X: X轴 Y: Y轴 Z: Z轴 4 : 4轴 5: 5轴 6: 6轴 Axis selection : OFF: Close axis function X:X axis Y:Y axis Z: Z axis 4: 4 axis 5:5 axis 6: 6 axis</p>
	<p>1X: 0.001mm 10X: 0.001mm 100X: 0.1mm 1000X:1mm</p>

## ● 接收器描述 Receiver description



工作指示灯：空闲时，指示灯闪烁；  
工作时，指示灯常亮

Work Led: When not working, the light flashing  
When working, the light is always bright



## 脉冲输出选型指南

### Pulse Output Selection Guide

型号 Model	参数描述 parameter description	适合系统 suitable systems
GP01	<p>电源DC5V,输出脉冲100PPR,相位输出为A,B 两路脉冲序列A和B相差90 开路集电极电路,内装200欧5V的上拉电阻</p> <p>DC5Vpower supply, 100PPR pulse output, phase output A, B phase difference 90 degrees between A and B open collector circuit with 200 ohm 5v pull-up resistor</p>	<p>日本法那科FANUC系统 台湾中达电通TNC 台湾亿图(HUST)系列 国内如航天数控,华中数控,广州诺信 凯恩帝KND等系列</p> <p>FAUNC system made in Japan TNC system made in Taiwan HUST series made in Taiwan Aerospace CNC, Huazhong CNC, Guangzhou Nordson, KND etc</p>
GP02	<p>电源DC12V,输出脉冲25PPR,相位输出为A,B 两路脉冲序列A和B相差90 开路集电极电路,内装2K欧5V的上拉电阻</p> <p>DC12Vpower supply, 25PPR pulse output, phase output A, B phase difference 90 degrees between A and B open collector circuit with 2Kohm 5 v pull-up resistor</p>	<p>日本三菱MELDAS电子手轮 (MELDAS M64;M65;E60等系统 为电源DC12V,输出为DC5V)</p> <p>MELDAS handwheel made in Japan (MELDAS M64;M65;E60) SELCA systems made in Italy</p>

## 脉冲输出选型指南

### Pulse Output Selection Guide

型号 Model	参数描述 parameter description	适合系统 suitable systems
GP03	<p>电源DC5V,输出脉冲100PPR,相位输出为A,/A,B,/B采用差分驱动输出</p> <p>DC5Vpower supply, 100PPR pulse output, phase output A,/A, B,/B differential driving output</p>	<p>适合PC_BASE系统，典型系统如：台湾宝元POUYUEN M600 M500 M520i T300 ELC-1000系列，台湾新代SYNTEC系统，德国PA系统典型如：海德盟 Higerman，海那克HANUC，广州数控 GSK，开通数控 等数控系统国外系统：西门子，NUM，西班牙法格FAGOR (NEW, 8055I)等.</p> <p>PC_BASE systems, eg .: Taiwan POUYUEN M600 M500M520i T300ELC-1000 SERIES Taiwan new generation SYNTEC systems Germany PA systems such as Higerman, HANUC, GSK, Kaitong CNC Other systems such as Siemens, NUM, FAGOR (new, 8055I)</p>



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