

BASIC

STANDARD BUILD

Basic MPG

STANDARD WIRELESS HANDWHEEL PENDANT

Wireless remote control manual pulse generator for CNC machine tools, engraving and milling machines and machining centres. The direct replacement for a wired spring-cable pendant used for jogging, edge finding and tool setting: same 433 MHz link and 50 m range as Advanced, without the safety-relay hardware.


433 MHz

ISM BAND

50 m

CLEAR RANGE

32 sets

SIMULTANEOUS

60 days

2 × AA

5 axes

RECEIVER OUTPUT

RADIO & POWER

Operating frequency	433 MHz ISM
Transmit power	10 dB
Receiver sensitivity	-98 dB
Interference-free range	50 m
Coexisting units	Up to 32
Battery	2 × AA alkaline, not supplied
Battery life	≈ 60 days typ · 30 days min
Antenna	Internal

PENDANT & BUILD

Axis selection	X/Y/Z/4/5
Magnification	×1 / ×10 / ×100
E-stop	Not fitted
Extension keys	None
Receiver cable	2.6 m shielded
Enclosure	Alloy
Keypad sealing	Oil / dust



Basic receiver

Up to 5-axis output, 2.6 m shielded cable, flying leads. Mounts on top of the chassis.



Complete set

Pendant, receiver and interface cable: one part number per control type.

BASIC MPG VS ADVANCED MPG

FEATURE	BASIC MPG	ADVANCED MPG
Handwheel, axis and rate selection	Yes	Yes
E-stop with emergency relay output	N/A	Yes
Enable (deadman) button	N/A	Yes
3 extension key outputs	N/A	Yes
Axis and rate coding output	N/A	Yes
External antenna receiver	N/A	Yes
Receiver axis outputs	5 axes	6 axes

Where the operator works inside the machine envelope, specify Advanced MPG instead: it adds an emergency relay output, an enable (deadman) button, 3 extension key outputs and an external-antenna receiver.

PRODUCT FEATURES

Anti-interference design Up to 32 wireless MPG sets in use simultaneously on one floor, each paired to its own receiver address.	Low-power design Two AA cells last about 60 days in normal single-shift operation (30 days minimum); the pendant sleeps between pulses.
Axis and magnification selection Rotary selectors for axis and $\times 1$ / $\times 10$ / $\times 100$ rate, presented to the control as a wired MPG would be.	Encoder feel Alloy body, stable and reliable encoder performance with clear detents at every tooth.
Sealed keypad Keys are waterproof and resist oil and dust: suitable for wet machining environments.	No control changes Lands on the existing MPG port with a control-matched pinout. No software or parameter changes.

APPLICATIONS

CNC machine tools, CNC engraving and milling machines, machining centres and turning centres. Supported controls: Siemens, Fanuc, Mitsubishi, Fagor, NUM and Syntec; other controls on request, supply the MPG port pinout from the machine electrical drawing.



IN THE BOX

Basic MPG pendant · receiver with 2.6 m shielded cable · control-matched interface cable · magnetic mounting bracket · wiring diagram and manual.

MOUNTING NOTE

Mount the Basic receiver on top of the chassis, not inside it. A closed steel cabinet attenuates the 433 MHz link and reduces usable range well below 50 m.