

COMPACT

EASY TO HANDLE

FLEXIBLE



Beta

TRANSMITTER

Beta transmitter adapts to the application to make the process more efficient. This easy-to-use handheld remote control gives incomparable freedom of movement, high motion accuracy and higher productivity while providing best operators' safety. With Beta transmitter, experience today's cutting-edge technology.

MAIN FEATURES

- > Configurable, smart bi-directional radio link to exchange information while adapting to the radio environment.
- > User-friendly screen for look-up, selection, validation, configuration...
- > Compact, easy-to-handle casing for one-hand control.
- > Quick and easy setup for application configuration thanks to **iDialog** software (labels, feedback, alarms, mapping actuators/outputs, interlocks, network features, access by PIN codes).
- > Easy to maintain thanks to its diagnosis aid system (screen message, iDialog analysis software).
- > 2 charging modes on Beta 6 + 4 model:
 - Rugged industrial charger for operator module,
 - Rugged industrial charger for battery.

FULLY COMPLIANT WITH SAFETY AND SECURITY STANDARDS:

Machinery directive 2006/42/EC:
 Emergency stop
 > SIL 3 per EN 61508
 > Performance level PL e
 per EN ISO 13849-1 and -2
 EC type certificate issued by TÜV
 NORD



Radio and telecommunication terminal
 equipment
 (low voltage, electromagnetic
 compatibility, radio spectrum)
 FCC part 15
 ARCEP certificate
 Radio Equipment Directive (RED)



DESCRIPTION

The transmitter comes in two versions:

> « 2+2(a) »^(a) transmitter with 2 function buttons^(b):

- 2 single-action pushbuttons
- OR 2 double-action pushbuttons

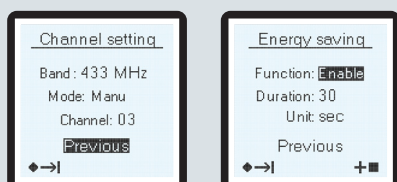
> « 6+2 »^(a) transmitter with 6 function buttons^(b):

- 6 single-action pushbuttons
- OR 6 double-action pushbuttons
- OR 4 double-action pushbuttons + 2 single-action pushbuttons (under the navigation buttons)

^(a) Each version has 2 navigation pushbuttons

^(b) The single-action pushbuttons can be configured as selectors for 2, 3 or «n» positions with status indication on the screen.

The screen on the transmitter allows configuring easily and choosing items such as:



- > Screen language
- > Receiver which you want to use
- > Radio transmit frequency and power
- > Duration of the « standby » time delay (automatically stops operator module and associated receiver if not used for a defined period of time)
- > Operating modes of the equipment (32 max.)

It also displays:

- Battery charge level
- Radio communication
- Equipment labels and controlled functions (max 96 different labels for selectors)
- Equipment feedback (16 feedbacks max with 10 labels / feedback - 48 labels max in total)
- Alarms (8 for application use + 8 for system)

Compatibility:

These transmitters work with **Elio, Alto, Timo, Nemo** receivers to be defined according the application.

TECHNICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS AND ENVIRONMENTAL WITHSTAND CAPACITY

Housing material	shock-resistant reinforced ABS
Water tightness	IP65
Weight (with battery)	2 buttons: 400 g 6 buttons: 485 g
Dimensions	2 buttons: 182 x 75 x 50 mm 6 buttons: 235 x 75 x 50 mm
Storage	on charger support
Carrying	in carrying sleeve by 2-point shoulder strap by 3-point shoulder strap

ENVIRONMENTAL WITHSTAND CAPACITY

Operating temperature	-20°C to + 50°C
Storage temperature without battery	-20°C to + 70°C
Battery storage temperature	-20°C to + 50°C

ELECTRICAL AND RADIO CHARACTERISTICS

Power supply	Li-ion battery
Autonomy (25°C) radio with activated	
100% time	10 hours
Frequency selection	64 frequencies for 433-434 MHz 12 frequencies for 869 MHz 64 frequencies for 911-918 MHz
Manual / automatic	
Emission power	< 10 mW (license free)
Range limitation	Selectable 10 levels of power
Modulation	FM
Average range ⁽¹⁾	100 m in industrial environment ⁽¹⁾ 300 m in open space ⁽¹⁾
Charging time (autonomy > 80%)	3 hr (20 mn of charge provides 1 hr autonomy)
Charging temperature range	0°C to + 40°C

FUNCTIONAL CHARACTERISTICS

Display	Backlit LCD, 128 x 128 pixels 42mm (W) x 40mm (H)
USB interface for configuration and diagnostics	mini-B 5-point USB connector Easy access in a compartment on the backside of the transmitter
Operating indications	Displayed on screen (radio link status, battery status, status of buttons, information feedbacks...)
Function buttons	2 or 6 pushbuttons (available as single or double-action buttons and configurable as selectors with n positions)
Navigation and buttons	2 pushbuttons configure the product 1 On / Validation button (for startup and validation of menus on screen)
Emergency stop	2 positions with rotary unlock system
Standby function	User-defined time delay (from 1 s to infinity)

⁽¹⁾ Range varies according to environment conditions around transmitter and reception antenna (steel works, metal walls, etc.).

ADVANCED OPTIONS

STARTUP VALIDATION BY IR

Startup of the remote-controlled equipment can be secured by adding an IR startup feature.

- To start the equipment, the operator must point the module in the direction of the PWT20 IR module(s) mounted on the equipment to control. The "Transmitter / Equipment controlled" match-up takes place with no possibility of error.

- The IR startup feature has a range of 0 to 20 m (see fig. A).

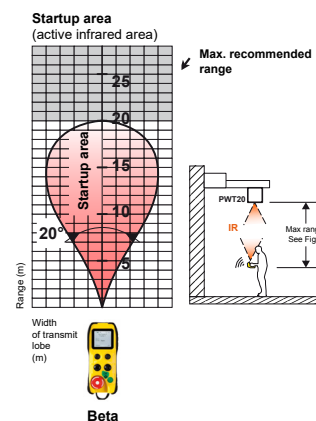


Fig. A

LIMITATION OF ACTION AREA BY INFRARED

The transmitter work features with an IR emission function which detects an operator in the IR working area. Operator safety is ensured since the operator is required to work in the IR area.

The maximum guaranteed work distance between PWT20 IR modules and the transmitter is 20 meters (see fig.A) or 8 meters (see fig.B).

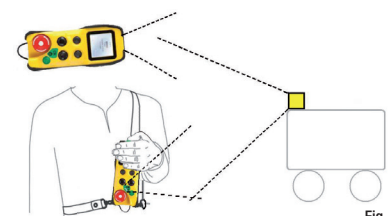


Fig. B

C16 INDUSTRIAL CONNECTOR FOR 2 DRY CONTACTS

- 4 connection terminals
- switching capacity < 10 mA
- female socket
- supplied with cap

ACCESSORIES



Standard charger for Beta 2+2 or Beta 6+2 transmitters

Standard version references

PWCB020

PWCB060

Dimensions: • 220 x 82 x 76 mm
• 272 x 82 x 76 mm

Power supply: 12/24 Vdc
Power: 7 W

References for version with 2 relays + 1 logic input + buzzer

PWCB021

PWCB061

References version with 1 relay + 4 logic inputs + buzzer

PWCB022

PWCB062

Mechanical support for Beta 6+2 transmitter

Reference: PWCB06M

Dimensions: 272 x 82 x 76 mm

Battery charger

Reference: PWC

Dimensions: 170 x 65 x 36 mm

Power supply: 12/24 Vdc

Power: 7 W

Plug-in Li-ion battery

for Beta 6+2 transmitter

Reference: PWB

Dimensions: 57 x 56 x 16 mm

Voltage: 3,7 V

Capacity: 1900 mAh

Built-in battery

for Beta 2 transmitter

Voltage: 3,7 V

Capacity: 1700 mAh

Sheet of adhesive labels for mobile equipments



Mains power adapter for battery charger

Reference: UBCU

Dimensions: 41 x 72 x 39 mm

Power supply: 100-240 Vac

Output: 12 Vdc

Power: 7 W



Cigarette lighter plug adapter for battery charger

Reference: PWA4

Dimensions: 90 x 20 x 20 mm

Power supply: 12-24 Vdc

Output: Power supply



Removable 2-point shoulder strap

Reference: UWE102

Removable 3-point shoulder strap

Reference: UWE104

Carrying sleeve for Beta 2+2 module

Reference: PWM107

Carrying sleeve for Beta 2+2 transmitter

Reference: PWM108



Carry strap wrist

Reference: PWM111

Protective Case for Beta 6

Reference: PWM106

Cover and protection for carrying Beta 6+2

Reference: PWM102



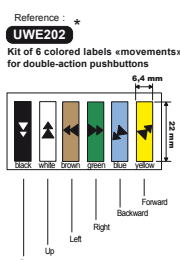
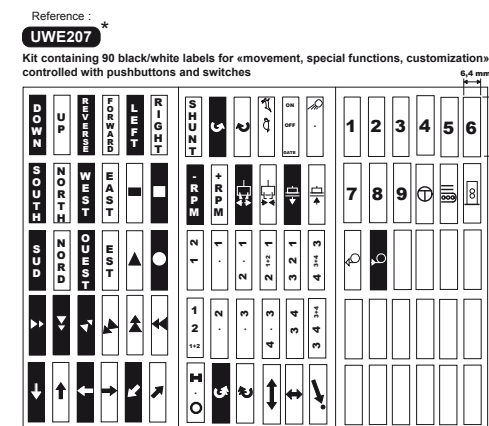
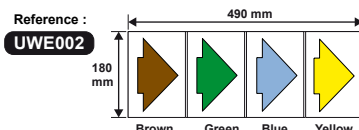
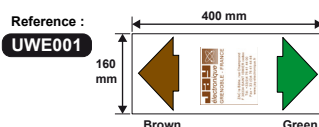
M12 female 4/5 points cable

Reference: PWM201

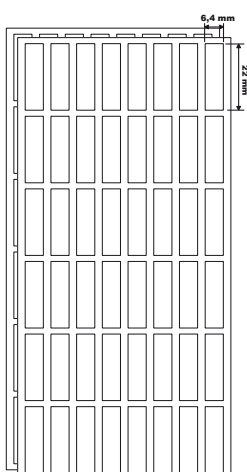
Length: 2 m

Sheet of adhesive labels for transmitter

The function buttons are identified by adhesive labels in the recesses in the transmitter casing next to the pushbuttons.



Reference: UWE205. Kit containing 48 white blank labels + 48 transparent protecting labels for customised markings



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