

ROBUST

ERGONOMIC

SECURE

Gama

TRANSMITTER

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

MAIN FEATURES

- > Configurable, smart bi-directional radio link exchanges information while adapting to the radio environment.
- > User-friendly screen for look-up, selection, validation, configuration...
- > Ergonomic casing and buttons, even when wearing thick gloves.
- > Function buttons designed to SIL 2 per EN 61508 and PL d per EN ISO 13849.
- > 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 (on screen message, iDialog analysis software).
- > 2 charging modes on Gama:
 - 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:

> «**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 display)

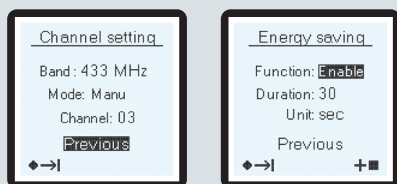
> «**10 +2**»^(a) transmitter with 10 function buttons^(b):

- 10 single-action pushbuttons
- 10 double-action pushbuttons
- OR 6 double-action pushbuttons
- OR + 4 single-action pushbuttons (under the display)
- OR 8 double-action pushbuttons + 2 single-action pushbuttons (under the display)

^(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 transmitter 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 max labels 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)	6 buttons: 768 g
	10 buttons: 893g
Dimensions	6 buttons: 290 x 93 x 64 mm
	10 buttons: 360 x 93 x 64 mm
Storage	on charger support
Carried	by 2-point shoulder strap

ENVIRONMENTAL WITHSTAND CAPACITY

Operating temperature range	-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) with radio link activated 100% time	10 hours
Frequency selection	64 frequencies for 433-434 MHz band
Manual / automatic	12 frequencies for 869 MHz band
	64 frequencies for 911-918 MHz band
Emission power	<10 mW (license free)
Range limitation	10 selectable levels of power
Modulation	FM
Average range ⁽¹⁾	100 m in industrial environment ⁽¹⁾
	300 m in open space ⁽¹⁾
Charging time (endurance > 80%)	3 hr (20 mn of charge provides 1hr 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 diagnosis	mini-B 5-contact USB connector Easy access in a compartment on the backside of transmitter
Operating indications	Displayed on screen (radio link status, battery status, status of buttons, information feedbacks...)
Function buttons	6 or 10 pushbuttons (available as single or double-action buttons and configurable as selectors with n positions) Ø 14 mm - travel 7 mm Endurance : 1 million cycles for 1st level pushbutton action 500 000 cycles for 2nd level pushbutton action
Navigation and startup buttons	2 pushbuttons to configure the product (above the emergency stop palmswitch) On / Validation button (for startup and validation of menus on screen) Endurance: 500 000 cycles
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. ...).

ADDITIONAL 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 26 m (see fig. A).

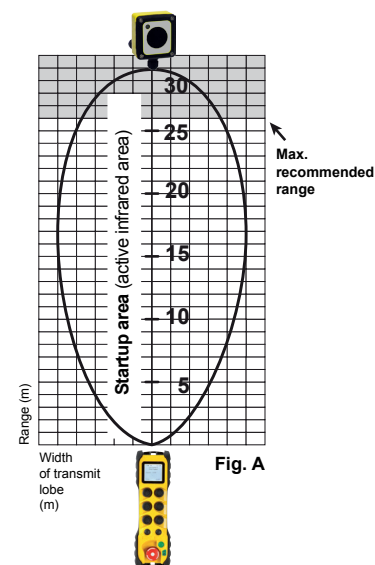
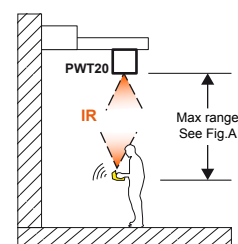


Fig. A

ACCESSORIES



Standard charger for Gama 6+2 or Gama 10+2 transmitters

References for basic version

PWCG060

PWCG100

Dimensions: • 355 x 94 x 96 mm
• 428 x 94 x 96 mm

Power supply: 12/24 Vdc

Power: 7 W

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

PWCG061



Battery charger

Reference: PWC

Dimensions: 170 x 65 x 36 mm

Power supply: 12/24 Vdc

Power: 7 W

Plug-in battery

Reference: PWB

Dimensions: 57 x 56 x 16 mm

Voltage: 3,7 V

Capacity: 1900 mAh



Mains adapter for battery charger

Reference: UBCU

Dimensions: 41 x 72 x 39 mm

Power supply: 115-230 Vac

Output: 12 Vdc

Power: 7 W



Removable 2-point shoulder strap

Reference: UWE102



Cigarette lighter plug adapter for battery charger

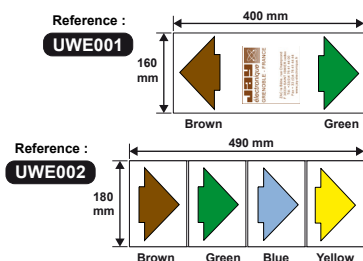
Reference: PWA4

Dimensions: 90 x 20 x 20 mm

Power supply: 12-24 Vdc

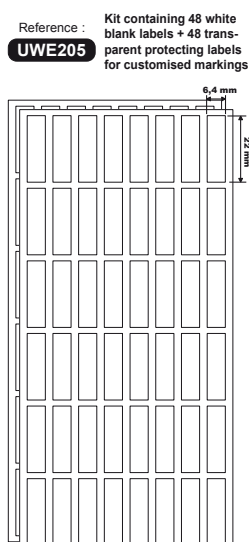
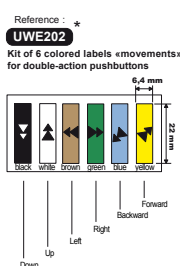
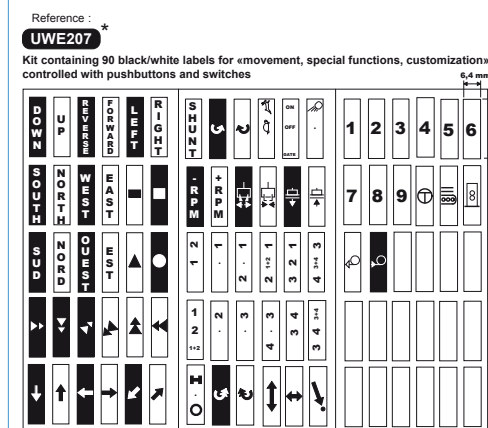
Output: Power supply

Sheet of adhesive labels for mobile equipments



Sheet of adhesive labels for transmitters

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



JAY

ZAC La Bâtie
Rue Champrond
F 38334 SAINT-ISMIER France
Tel. +33 (0)4 76 41 44 00
www.jay-electronique.com

A company of

CONDUCTIX
wamplifier

Not all products shown on this leaflet may be available in your area: please contact your Conductix-Wamplifier office.