

COMPACT

ERGONOMIC

Pika TRANSMITTER

Pika transmitter adapts to the application to make the process more efficient. This easy-to-use remote control gives incomparable freedom of movement, high motion accuracy, and higher productivity while providing best operators' safety. With Pika 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 display for look-up, selection, validation, configuration...
- > Compact, super-ergonomic unit.
- > 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).
- > Plug-in battery and industrial charger.

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 with:

- > Transmitter^(a) with 1 joystick or 2 joysticks:
 - 4 function pushbuttons^(b)
 - + 2 positions for additional switches(c)

(a) Each version has 2 navigation pushbuttons,

- «On/Validation» pushbutton and 1 emergency stop palmswitch.
 ^(b) The single-action pushbuttons can be
- configured as selectors for 2, 3 or «n» positions with status indication on the screen.
- © You can choose from among the following control components : - key selector switches
- selector switches with 2 fixed positions
- 2-position buttons with return to initial position
- selector switches with 3 fixed positions
- 3-position buttons with return to initial position
 3-position buttons with 2 fixed positions + 1 return to initial position
- s-position buttons with 2 need positions + 1 return to initial position
 rotary selector switches with 4 to 12 positions
- potentiometer

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



- > Screen language
- > Transceiver which you want to use
- > Radio transmit frequency and power
- > Duration of the « standby » time delay (automatically stops transmitter and associated receivers 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

	S AND ENVIRONMENTAL WITHSTAND CAPACITY
Housing material	shock-resistant polyamide
Water tightness	IP65
Weight (with battery)	1 joystick: 1300 g
	2 joysticks: 1400 g
Dimensions	243 x 180 x 170 mm
Carried	by carrying belt
	by 2-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

	TICS
Power supply	Li-ion battery
Autonomy (25 °C) with radio, activated	10 hours
100 % time	
Frequency selection	64 frequencies for 433-434 MHz
Manual / automatic	12 frequencies for 869 MHz
	64 frequencies for 911-918 MHz
	64 frequencies for 2.4 GHz
Emission power	< 10 mW (license free)
Range limitation	10 selectable levels of power
Modulation	FM or LoRa with 2.4 GHz
Average range (1)	100 m in industrial environment (1)
	300 m in open space (1)
	80 m-300 m band 2.4 GHz in industrial environment (1)
	800 m-2 Km band 2.4 GHz in open space (1)
Charging time (autonomy > 80 %)	3 hr (20 mn of charge get 1 hr autonomy)
Charging temperature range	0 °C to +40 °C

FUNCTIONAL CHARACTERISTICS

Backlit LCD display, 128 x 128 pixels	
42 mm (W) x 40 mm (H)	
mini-B 5-point USB connector	
Easy access in a compartment on the level	
side of transmitter	
On screen (radio link status,	
battery status, status of buttons,	
information feedbacks)	
4 pushbuttons (mounted around the screen)	
+ 2 positions for switches	
2 pushbuttons to configure the product	
1 On/Validation button (for startup and	
validation of menus on screen)	
2 positions with rotary unlock system	
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.).

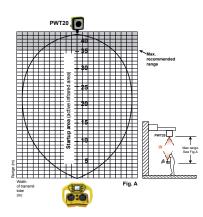
ADDITIONAL OPTIONS

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.

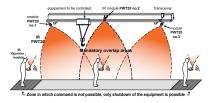
- The IR startup feature has a range of 35 m (see fig. A).



LIMITATION OF ACTION AREA BY INFRARED

The transmitter features 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 35 meters.



C16 INDUSTRIAL CONNECTOR FOR 2 DRY CONTACTS

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

C16 INDUSTRIAL CONNECTOR FOR WIRE CONNECTION

- 7 connection terminals

- male socket
- supplied with cap

ACCESSORIES

Reference	Description	Picture
UWE102	Removable 2-points shoulder strap	RUC
PWM103	Carrying belt	Barn I say and
PWM112	Carrying harness for Pika or Moka transmitter	
PWC	Charger for PWB plug-in battery Dimensions : 170 x 65 x 36 mm Power supply 12/24 Vdc, 7 W	
PWCPM01	Docking Station Pika/Moka with 2 Relays + 1 logical input + Buzzer Dimensions : 274 x 159 x 170 mm Power supply 12/24 Vdc, 7W Warning, compatible with all Pika & Moa transmitter equipped with charging contacts	
PWB	Supplementary plug-in battery 3.7 V 2200 mA lithium lon (for Beta 6) Dimensions : 57 x 56 x 16 mm Voltage: 3.7 V Capacity: 1900 mAh	
UBCU	110-240 Vac / 12 Vdc Adapter with European, UK and US plugs For charger PWC, PWCPM01	
PWA4	Cigarette lighter socket 12-24 Vdc. For charger PWC, PWCPM01	
PWL010	10 m cable for wired link	
PWT17	Female M12 connector 4/5 pins with 2 m cable - Auxiliary Beta plug - M12 Timo Plug	Q
PWE01	Rotary switches 2 positions with standard metal key "Pika-Moka" for metal box	
UWE002	4 self-adhesive directional colored arrows (4 x 122 x 180 mm)	100 mm 100 mm Marco Vert Biew Jaune
UWE202	6 label kit arrows color	* * ** **
UWE205	48 blank label kit	
UWE207	Kit 90 labels buttons black & white	



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MODULAR

MULTIFUNCTION

Moka TRANSMITTER

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MAIN FEATURES

- > Configurable, smart bi-directional radio link to exchange information while adapting to the radio environment.
- > User-friendly screen display for look-up, selection, validation, configuration...
- > Modular unit with wide ranging choice of functions.
- > 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).
- > Plug-in battery and rugged industrial charger.

FULLY COMPLIANT WITH SAFETY AND SECURITY STANDARDS:

Machinery directive 2006/42/EC: Emergency stop > SIL 3 per EN 61508

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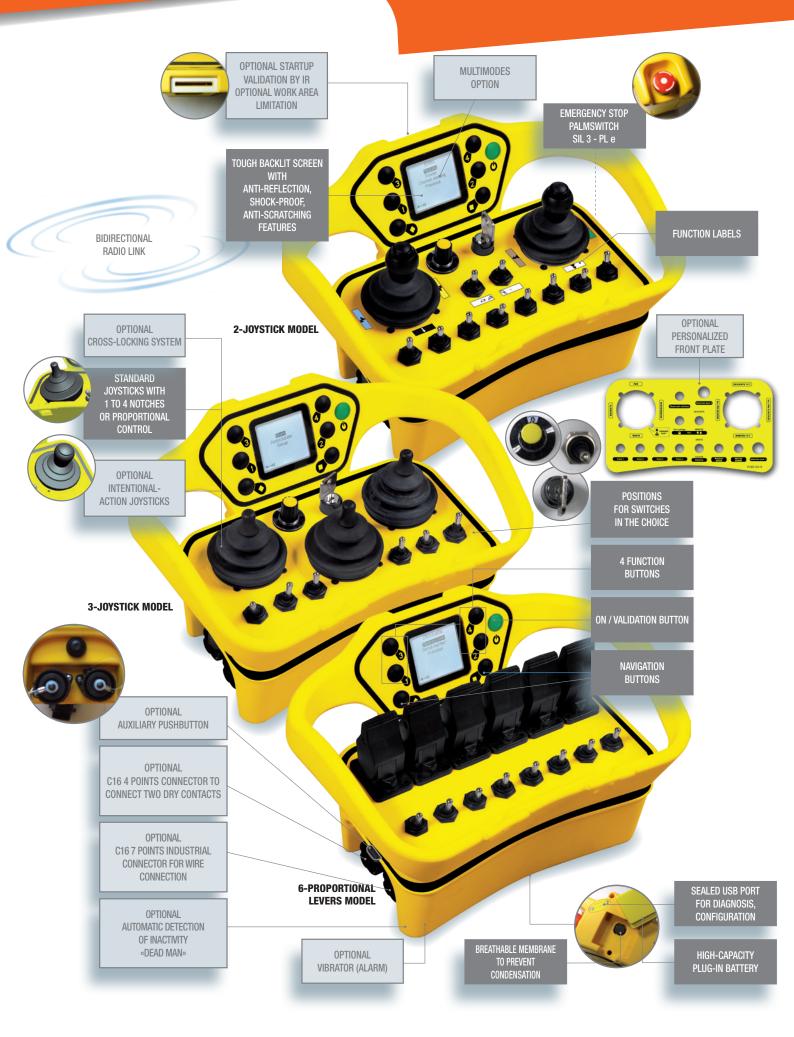
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TRANSMITTER Moka





DESCRIPTION

The transmitter comes with:

 \rightarrow Transmitter^(a) with 2 joysticks:

- 4 function pushbuttons
- + 12 positions additional switches(c)

ightarrow Transmitter^(a) with 3 joysticks:

- 4 function pushbuttons^(b)
- + 8 positions for cadditional switches(c)

\rightarrow Transmitter^(a) with 6 proportional levers:

- 4 function pushbuttons^(t)
- + 8 positions for additional switches(c)

ightarrow Autres configurations en spécial

- (a) Each version has 2 navigation pushbuttons, 1 On / Validation» pushbutton and 1 emergency stop palmswitch.
- ^(b) The pushbuttons can be configured as selectors for 2, 3 or «n» positions with status indication on the screen.
- © Choose among the following control components:
- key selector switches
- selector switches with 2 fixed positions
- 2-position buttons with return to initial position
- selector switches with 3 fixed positions
- 3-position buttons with return to initial position
- 3-position buttons with 2 fixed positions + 1 return to initial position - rotary selector switches with 4 to 12 positions
- potentiometer (for 2-joystick model)

The screen on the transmitter allows configurating 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 allows to view:

- · 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 and Nemo receivers to be defined according the application.

TECHNICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS AND ENVIRONMENTAL WITHSTAND CAPACITY

Housing material	shock-proof polyamide
Water tightness	IP65
Weight (with battery)	from 1700 g to 1800 g depending on configurations
Dimensions	297 x 215 x 170 mm
Carried	by carrying belt
	by 2-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) with radio activated 100 % time	10 hours	
Frequency selection	11 frequencies for 418-419 MHz	
Manual / automatic	64 frequencies for 433-434 MHz	
	12 frequencies for 869 MHz	
	64 frequencies for 911-918 MHz	
	64 frequencies for 2.4 GHz	
Emission power	<10 mW (license free)	
Range limitation	10 selectable levels of power	
Modulation	FM or LoRa with 2.4 GHz	
Average range (1)	100 m in industrial environment (1)	
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FUNCTIONAL CHARACTERISTICS

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Display	Backlit LCD display, 128 x 128 pixels	
	42 mm (W) x 40 mm (H)	
USB interface for	mini-B 5-point USB connector	
configuration and	Easy access in a compartment on the back side	
diagnosis	of the transmitter	
Operating indications	On screen (radio link status,	
	battery status, status of buttons,	
	information feedbacks)	
Function buttons	4 pushbuttons (mounted around the screen)	
	+ up to 12 positions	
	for switches depending on number of joysticks	
Navigation and	2 pushbuttons to configure the product	
startup buttons	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)	

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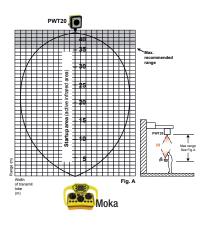
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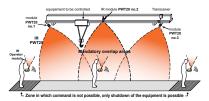
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