

MODULAR

MULTIFUNCTION

Moka TRANSMITTER

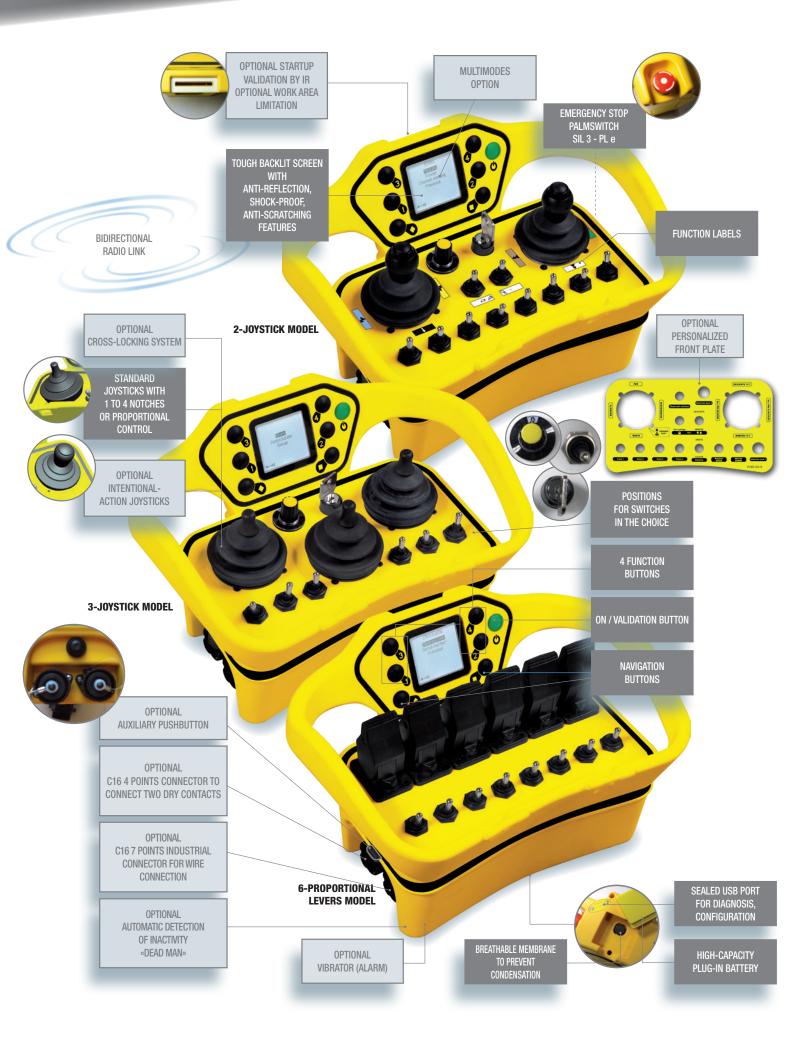
Moka transmitter adapts to the application to make the process more efficient. This easy-to-use remote control gives incomparable freedom of movement, high motion accuracy, and higher productivity while providing best operators' safety. With Moka transmitter, experience today's cutting-edge technology.

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...
- > 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.



Moka



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^(b)
- + 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	10 hours	
100 % time		
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)	
	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

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)	
	1	

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

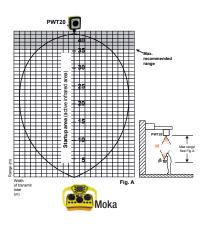
ADDITIONAL OPTIONS

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.

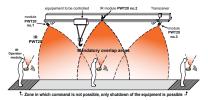
The IR startup feature has a range of 35 m (see fig. A).



LIMITATION OF WORK 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 the PWT20 IR modules and the operator module 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 Ion (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)	180 mm 180 Marron Vert Blev Jaune
UWE202	6 label kit arrows color	* * * * *
UWE205	48 blank label kit	
UWE207	Kit 90 labels buttons black & white	