RADO LEVAGE
Le levage notre métier,vos besoins notre priorité !

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.

Pika


OPTIONAL STARTUP VALIDATION BY IR OPTIONAL WORK AREA LIMITATION
OPTIONAL CROSS-LOCKING SYSTEM
OPTIONAL PERSONALIZED FRONT PLATE
BIDIRECTIONAL RADIO LINK
STANDARD JOYSTICKS WITH 1 TO 4 NOTCHES OR PROPORTIONAL CONTROL
NORD
ON
DESCENTE
OFF.
OUEST
CLEF
EST
Shunt
Reset
SUD
MONTÉE
OPTIONAL SECURE INTENTIONAL-ACTION JOYSTICKS
TOUGH BACKLIT SCREEN WITH ANTI-REFLECTION, SHOCK-PROOF, ANTI-SCRATCHING FEATURES
EMERGENCY STOP PALMSWITCH SIL 3 - PL e
MULTIMODES OPTION
4 FUNCTION BUTTONS
ON / VALIDATION BUTTON
NAVIGATION BUTTONS
POSITIONS FOR « TOGGLE » SWITCHES
1-JOYSTICK MODEL
OPTIONAL INDUSTRIAL CONNECTOR C16 / 4 POINTS TO CONNECT 2 DRY CONTACTS OR C16 / 7 POINTS FOR WIRE CONNECTION WITH TIMO, NEMO, ALTO
OPTIONAL AUXILIARY PUSHBUTTON
FUNCTION LABELS
SEALED USB INTERFACE FOR DIAGNOSIS, CONFIGURATION
OPTION AL AUTOMATIC DETECTION OF INACTIVITY «DEAD MAN»
2-JOYSTICK MODEL
HIGH-CAPACITY PLUG-IN BATTERY
OPTIONAL VIBRATOR (ALARM)
BREATHABLE MEMBRANE TO PREVENT CONDENSATION

TRANSMITTER

Pika

DESCRIPTION

The transmitter comes with:

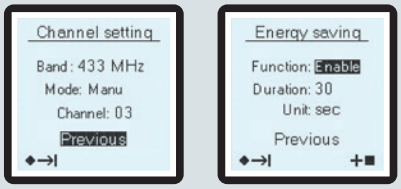
> **Transmitter[a] with 1 joystick or 2 joysticks:**
4 function pushbuttons[b]
+ 2 positions for additional switches[c]

[a] Each version has 2 navigation pushbuttons, 1 «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.

[c] 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
- 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

MECHANICAL CHARACTERISTICS 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

ELECTRICAL AND RADIO CHARACTERISTICS

Power supply	Li-ion battery
Autonomy (25 °C) with radio, activated 100 % time	10 hours
Frequency selection 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 1hr 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 configuration and diagnosis	mini-B 5-point USB connector Easy access in a compartment on the level side of transmitter
Operating indications	On screen (radio link status, battery status, status of buttons, information feedbacks…)
Function buttons	4 pushbuttons (mounted around the screen) + 2 positions for switches
Navigation and startup buttons	2 pushbuttons to 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.).

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).

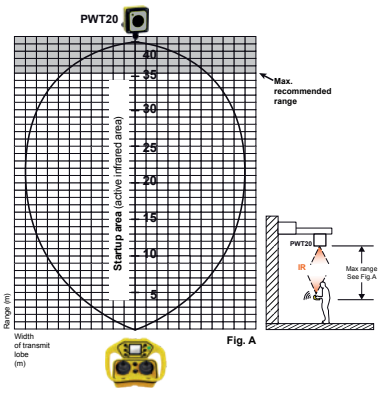
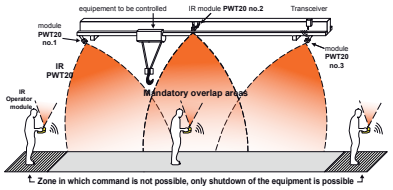


Fig. A

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.



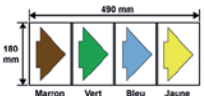
C16 INDUSTRIAL CONNECTOR FOR 2 DRY CONTACTS

- 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	
PWM103	Carrying belt	
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	
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)	
UWE202	6 label kit arrows color	
UWE205	48 blank label kit	
UWE207	Kit 90 labels buttons black & white