

COMPACT

ERGONOMIC



Pika OPERATOR MODULE

The Pika operator module adapts to your application to make your process more efficient. This easy-to-use module gives you incomparable freedom of movement, precise quality manoeuvres, and higher productivity while ensuring your operators' safety. With the Pika operator module, experience today's cuttingedge technology.

MAIN FEATURES

- → Configurable, intelligent bi-directional radio link exchanges information while adapting to the radio environment.
- → User-friendly screen display for look-up, selection, validation, configuration ...
- \rightarrow 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 diagnostic aid system (information on screen, iDialog analysis software).
- \rightarrow Plug-in battery and industrial charger.

FULLY COMPLIANT WITH EUROPEAN DIRECTIVES :

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) R&TTE 99/5/CE ARCEP certificate





OPERATOR MODULE

Pika





DESCRIPTION

The operator module comes in two housing versions:

ightarrow Operator module^(a) with 1 joystick:

- 4 function pushbuttons^(b) + 2 positions for control components
- of your choice^[c]
- ightarrow Operator module $^{ ext{(a)}}$ with 2 joysticks :
- 4 function pushbuttons^(b)
- + 2 positions for control components of your choice^(c)
- ¹ Each version has 2 navigation pushbuttons,
- 1 «On/Validation» pushbutton and 1 emergency stop palmswitch.
- ^{a)} 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 - rotary selector switches with 4 to 12 positions
- potentiometer

The screen on the operator module allows you to easily configure and choose items such as :



- ightarrow The screen language
- ightarrow The transceiver which you want to use
- ightarrow The radio transmit frequency and power
- → The duration of the « standby » time delay (Automatically stops operator module and associated transceiver if not used for a defined period of time)
- → The different 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 max feedback with 10 labels / feedback and max 48 labels in total)
- Alarms (8 for application use + 8 for system)

Compatibility:

These operator modules work with **Elio**, **Alto**, **Timo** transceivers to be defined according the application.

TECHNICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS AND ENVIRONMENTAL WITHSTAND CAPACITY

Housing material	shock-resistant polyamide
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 range	-20°C to + 50°C
Storage temperature range of housing alone	-20°C to + 70°C
Storage temperature range of battery	-20°C to + 50°C

ELECTRICAL AND RADIO CHARACTERISTICS

Power supply	Li-ion battery
Endurance (25°C) of radio link, activated 100% time	10 hours
Frequency selection	64 frequencies on 433-434 MHz band
Manual / automatic	12 frequencies on 869 MHz band
	64 frequencies on 911-918 MHz band
Transmit power	<10 mW
Range limitation	10 power levels, configurable
Modulation	FM
Average range [1]	100 m in industrial space ⁽¹⁾
	300 m in open space (1)
Charging time (endurance > 80%)	3 H (20 mn of charge get 1h autonomy)
Charging temperature range	0°C to + 40°C

FUNCTIONAL CHARACTERISTICS

Display	Backlit LCD display, 128 x 128 pixels 42mm (L) x 40mm (H)
USB interface for	mini-B 5-point USB connector
configuration and	Easily accessible by cover on
diagnostics	back of operator module
Operating indications	Visible on screen (radio link status,
	battery status, status of buttons,
	information feedback)
Function buttons	4 pushbuttons (mounted around the screen)
	+ 2 positions for control components
	of your choice according to
	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-definable time delay
	(from 1 s to infinity)

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

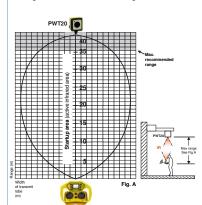
ADDITIONAL OPTIONS

STARTUP BY IR VALIDATION

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 be controlled. The "Operator module / Equipment controlled" match-up takes place with no possibility of error.

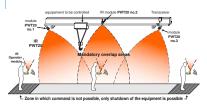
The IR startup feature has an action range of 0 to 35 m (see fig. A).



LIMITATION OF ACTION AREA BY INFRARED

The operator module is equipped 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 range guarantied between the PWT20 IR modules and the operator module is 35 meters.



C16 INDUSTRIAL CONNECTOR FOR 2 DRY CONTACTS

- 4 connection points
 - switching capacity < 10 mA
 - female socket
 - remate socket

supplied with cap

C16 INDUSTRIAL CONNECTOR FOR WIRE CONNECTION

- 7 connection points
- male socket
- supplied with cap

ACCESSORIES





Battery charger

Reference : PWC Dimensions : 170x65x36 mm Power supply : 12/24 VDC Power : 7w

Power : /w Plug-in battery for operator module

Reference : PWB Dimensions : 57x56x16 mm Voltage : 3,7V Capacity : 1900mA Technology : lithium Ion

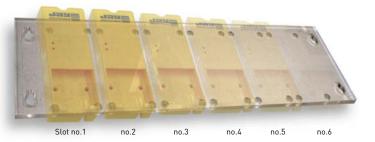


Reference : UBCU Dimensions : 41x72x39 mm Power supply : 115-230VAC Output : 12VDC Power : 7 w



Cigarette lighter plug adapter for battery charger

Reference : PWA4 Dimensions : 90x20x20 mm Power supply : 12-24VDC Output : Power supply



Rack for battery chargers (6 positions) Sold without charger Reference : PWR

Dimensions : 470x147x8 mm Mains power adapter for rack

Reference : PWAUR Power supply : 100-240VAC Output : 12VDC Power : 36 w





Removable shoulder strap Reference : UWE102



Carrying belt Reference : PWM103



Key switch No. 2D138 diameter 22 for cabinet Reference : PWE01



ZAC La Bâtie Rue Champrond F 38334 SAINT-ISMIER France

Tel. +33 (0)4 76 41 44 00 Fax +33 (0)4 76 41 44 44

www.jay-electronique.com

The products shown in this document are subject to change. The description, photos and characteristics are not contractually binding.

RadioCrane, RadioDrive, RadioSafe, RadioLift, RadioGreen, RadioBuild, RadioFarm, RadioMotion are trademarks of JAY Electronique France.

P-003-EN-D

Cable for wire connection between operator module and transceiver Reference : PWL010

Length : 10 meters Equipped with a C16 female connector on one side and a C16 male connector on the other side C16 male 4 points industrial connector Kit to be screwed Reference : PWM202