

MODULAR**MULTIFUNCTION**

Moka

OPERATOR MODULE

The Moka 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 Beta operator module, experience today's cutting-edge technology.

MAIN FEATURES

- Configurable, intelligent bi-directional radio link exchanges information while adapting to the radio environment.
- User-friendly screen for look-up, selection, validation, configuration...
- Modular unit with wide ranging choice of functions.
- Easy to maintain thanks to its diagnostic aid system (information on screen, iDialog analysis software).
- Plug-in battery and rugged industrial charger.

FULLY COMPLIANT WITH EUROPEAN DIRECTIVES :

Machinery 2006/42 :

Emergency stop
→ SIL3 per EN 61508
→ Performance level PLE
Per EN13849-1 and -2
EC type certificate issued by
TÜV NORD



No 44 250 11 382580 005

Radio and telecommunication terminal equipment

(low voltage, electromagnetic compatibility, radio spectrum)
R&TTE 99/5/CE
ARCEP certificate



OPTIONAL MULTIMODES



OPTIONAL STARTUP BY IR VALIDATION
OPTIONAL ACTION AREA LIMITATION



EMERGENCY STOP PALMSWITCH SIL3

TOUGH BACKLIT SCREEN WITH ANTI-REFLECTION, SHOCK-PROOF, ANTI-SCRATCHING FEATURES

BIDIRECTIONAL RADIO LINK

2-JOYSTICK MODEL

OPTIONAL CROSS-LOCKING SYSTEM

STANDARD JOYSTICKS WITH 1 TO 4 NOTCHES OR PROPORTIONAL CONTROL

OPTIONAL INTENTIONAL-ACTION JOYSTICKS



POSITIONS FOR « TOGGLE » CONTROL SWITCHES IN THE CHOICE

4 FUNCTION BUTTONS

ON/VALIDATION BUTTON

NAVIGATION BUTTON

3-JOYSTICK MODEL



OPTIONAL AUXILIARY PUSHBUTTON
OPTIONAL INDUSTRIAL CONNECTORS

SEALED USB PORT FOR DIAGNOSTICS, CONFIGURATION

HIGH-CAPACITY PLUG-IN BATTERY

6-PROPORTIONAL LEVERS MODEL

OPTIONAL « DEADMAN » DETECTION
OPTIONAL ISOLATED WORKER ALARM SYSTEM

OPTIONAL VIBRATOR (ALARM)

BREATHABLE MEMBRANE PREVENTS CONDENSATION



DESCRIPTION

The operator module comes in 3 housing versions:

- **Operator module^(a) with 2 joysticks :**
4 function pushbuttons^(b)
+ 12 positions for control components of your choice^(c)
- **Operator module^(a) with 3 joysticks:**
4 function pushbuttons^(b)
+ 8 positions for control components of your choice^(c)
- **Operator module^(a) with 6 proportional levers :**
4 function pushbuttons^(b)
+ 8 positions for control components of your choice^(c)

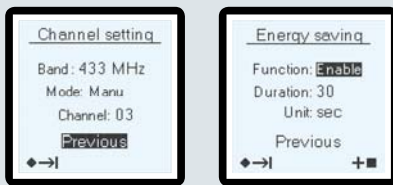
^(a) Each version has 2 navigation pushbuttons, 1 On/Validation» pushbutton and 1 emergency stop palm-switch.

^(b) The pushbuttons can be configured as selectors for 2, 3 or «n» positions with status indication on the screen.

^(c) 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
- rotary selector switches with 4 to 12 positions

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



- The screen language
- The transceiver which you want to use
- 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)

TECHNICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS AND ENVIRONMENTAL WITHSTAND CAPACITY

Housing material	shock-proof polyamide
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 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 12 frequencies on 869 MHz band
Manual / automatic	<10 mW (license free)
Transmit power	10 power levels, configurable
Range limitation	FM
Modulation	100 m in industrial space ⁽¹⁾ 300 m in open space ⁽¹⁾
Average range ⁽¹⁾	3 H (20 mn of charge get 1h autonomy)
Charging time (endurance > 80%)	0°C to +40°C
Charging temperature range	

FUNCTIONAL CHARACTERISTICS

Display	Backlit LCD display, 128 x 128 pixels
USB interface for configuration and diagnostics	mini-B 5-point USB connector Easily accessible by cover on 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) + up to 12 positions for control components of your choice depending on number of joysticks
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-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.).

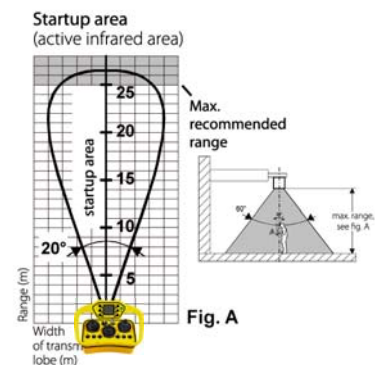
ADDITIONAL OPTIONS

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.

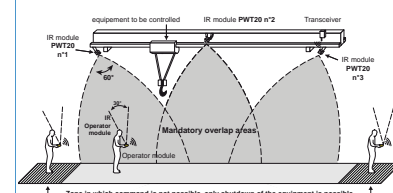
- The IR startup feature has an action range of 0 to 25 m (see fig. A).



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 guaranteed between the PWT20 IR modules and the operator module is 8 meters.



ACCESSORIES



Battery charger

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

Plug-in battery for operator module

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

Mains power adapter

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



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



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