

COMPACT**EASY TO HANDLE****FLEXIBLE**

Beta

OPERATOR MODULE

The Beta operator module adapts to your application to make your process more efficient. This easy-to-use handheld 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 to exchange information while adapting to the radio environment.
- User-friendly screen for look-up, selection, validation, configuration...
- Compact, easy-to-handle casing for one-hand control.
- Easy to maintain thanks to its diagnostic aid system (information on screen, iDialog analysis software).
- 2 charging modes possible (on 6 + 4 model) :
 - Rugged industrial charger for operator module,
 - Rugged industrial charger for battery.

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 001

Radio and telecommunication terminal equipment

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



OPTIONAL STARTUP BY IR VALIDATION

OR

OPTIONAL IR ACTION AREA LIMITATION

OR



OPTIONAL PUSHBUTTON

OR

OPTIONAL INDUSTRIAL CONNECTOR

OR

OPTIONAL BNC ANTENNA CONNECTOR



BIDIRECTIONAL RADIO LINK

BREATHABLE MEMBRANE PREVENTS CONDENSATION

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INTEGRATED REINFORCED ABS AND PROTECTIVE FOAM

SEALS

NAVIGATION BUTTONS

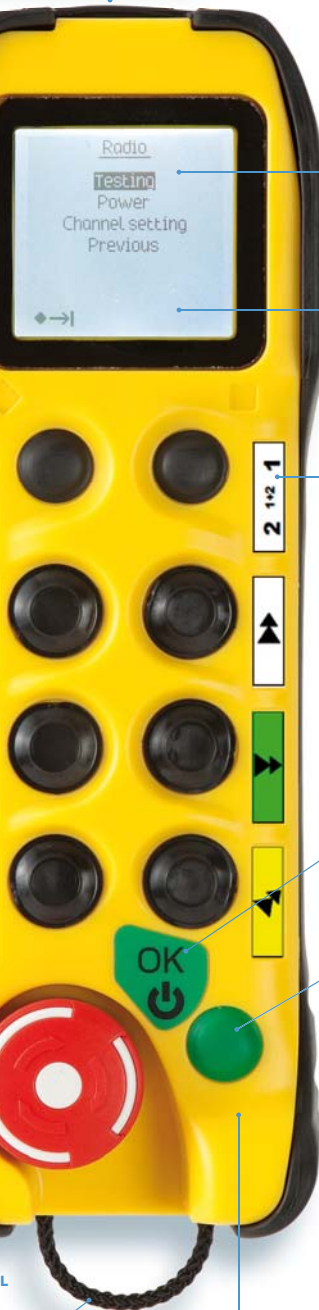
CASING SHAPED TO PREVENT UNINTENTIONAL ACTIONS



2+4 MODEL

EMERGENCY STOP PALMSWITCH SIL3 - PLe

OPTIONAL « DEADMAN » DETECTION
OPTIONAL ISOLATED WORKER ALARM SYSTEM



6+4 MODEL

CARRYING STRAP

OPTIONAL VIBRATOR (ALARM)

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

MULTIMODES OPTION

FUNCTIONS IDENTIFIED



OPTIONAL IR ACTION AREA LIMITATION

ON / VALIDATION BUTTON

HIGH-CAPACITY PLUG-IN BATTERY (6+4 MODEL)



SEALED USB INTERFACE FOR DIAGNOSTICS, CONFIGURATION

DESCRIPTION

The operator module comes in two housing versions :

→ « 2+ 4(a) »^(a) operator module with 2 function buttons^(b) :

- 2 single-action pushbuttons
- OR • 2 double-action pushbuttons

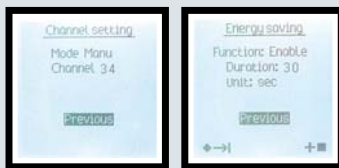
→ « 6 + 4 »^(a) operator module with 6 function buttons^(b) :

- 6 single-action pushbuttons
- OR • 6 double-action pushbuttons
- OR • 4 double-action pushbuttons + 2 single-action pushbuttons (under the navigation buttons)

^(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.

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-resistant reinforced ABS
Tightness	IP65
Weight (with battery)	2 buttons : 400 g 6 buttons : 485 g
Dimensions	2 buttons : 182 x 75 x 50 mm 6 buttons : 235 x 75 x 50 mm
Stowed	on charger support
Carried	in carrying sleeve by 2-point shoulder strap by 3-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	12 frequencies on 869 MHz band
Transmit power	<10 mW (license free)
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, 128 x 128 pixels
USB interface for configuration and diagnostics	mini-B 5-point USB connector Easily accessible by cover on back contact of operator module
Operating indications	Visible on screen (radio link status, battery status, status of buttons, information feedback...)
Function buttons	2 or 6 pushbuttons (available as single or double-action buttons and configurable as selectors with n positions)
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.).

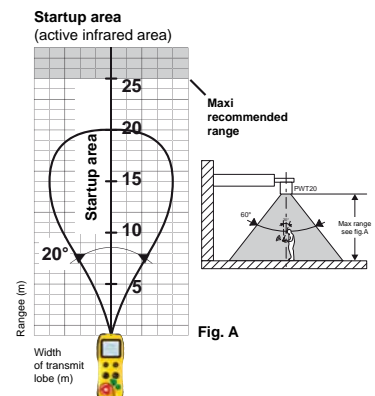
ADDITIONAL OPTIONS

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.

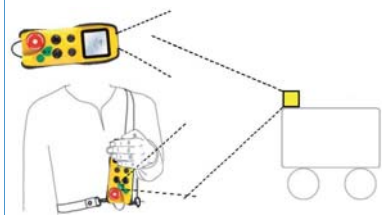
- The IR startup feature has an action range of 0 to 20 m (see fig. A).



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 UDF IR modules and the operator module is 8 meters.



ACCESSORIES



Standard charger for 2+4 or 6+4 Beta operator modules

Standard versions :
 PWCB020
 PWCB060
 Dimensions : • 220x82x76 mm
 • 272x82x76 mm
 Power supply : 12/24 VDC
 Power : 7w
 Full options versions :
 PWCB021
 PWCB061



Battery charger

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

Plug-in battery for 6+4 operator module

Reference : PWB
 Dimensions : 57x56x16 mm
 Voltage : 3,7V
 Capacity : 1900mAh

Built-in battery for 2+4 operator module

Voltage : 3.7V
 Capacity : 1700mAh



Mains power adapter

Reference : UBCU
 Dimensions : 41x72x39 mm
 Power supply : 100-240VAC
 Output : 12VDC
 Power : 7 w



Vehicule plug adapter

Réf. : PWCA4



Rack for battery chargers (6 positions)

Sold without charger
 Reference : PWR
 Dimensions : 470x147x8 mm

Mains power adapter for rack

Ref. : PWAUR
 Power supply : 100-240VAC
 Output : 12VDC
 Power: 30 w



Removable 2-point shoulder strap

Reference: UWE102

Removable 3-point shoulder strap

Reference: UWE104

Carrying sleeve for Beta 2 module

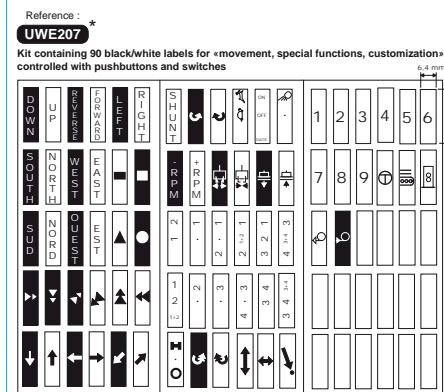
Reference: PWM101

Carrying sleeve for Beta 6 module

Reference: PWM102

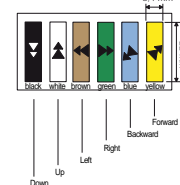
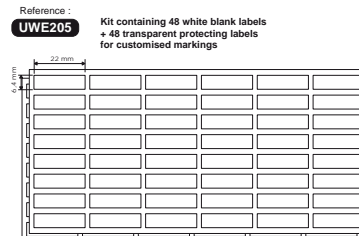
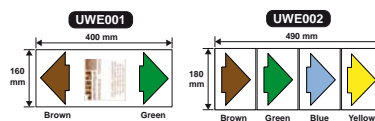
Sheet of adhesive labels for operator module :

The button functions are identified by adhesive labels in the recesses provided in the operator module casing next to the pushbuttons.



* = standard sheet of labels supplied with operator module

Sheet of adhesive labels for your mobile equipment :



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