

ROBUST FREE YOURSELF FROM CABLES !



ERGONOMIC

Gama

OPERATOR MODULE

The Gama 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 Gama operator module, experience to-day'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 ...
- ightarrow Ergonomic casing and buttons, even when wearing gloves.
- → Function buttons designed to SIL2 per EN 61508 and PLd per EN 13849.
- → Easy to maintain thanks to its diagnostic aid system (information on screen, iDialog analysis software).
- → 2 charging modes possible:
 - 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



Radio and telecommunication terminal equipment (low voltage, electromagnetic

compatibility, radio spectrum) R&TTE 99/5/CE ARCEP certificate





10+4 MODEL

PALMSWITCH

SIL3 - PLe

PLUG-IN BATTERY



DESCRIPTION

The operator module comes in two housing versions :

- → **« 6+ 4 »^(a) operator module** with 6 function buttons^(b) :
 - 6 single-action pushbuttons
- or 6 double-action pushbuttons
- 4 double-action pushbuttons + 2 single-action pushbuttons (under the display)
- → « 10 + 4 »^(a) operator module with 10 function buttons^(b):
 - 10 single-action pushbuttons
- or 10 double-action pushbuttons
- 6 double-action pushbuttons
 + 4 single-action pushbuttons
 (under the display)
- 8 double-action pushbuttons + 2 single-action pushbuttons (under the display)
- ^{al} 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:





- ightarrow The screen language
- \rightarrow 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)

TECHNICAL CHARACTERISTICS

MECHANICAL CHARACTERISTICS AND ENVIRONMENTAL WITHSTAND CAPACITY

Housing material	shock-resistant reinforced ABS
Tightness	IP65
Weight (with battery)	6 buttons : 768 g
	10 buttons : 893g
Dimensions	6 buttons : 290 x 93 x 64 mm
	10 buttons : 360 x 93 x 64 mm
Stowed	on charger support
Carried	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

ower 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
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

FUNCTIONAL CHARACTERISTICS	
Display	Backlit LCD, 128 x 128 pixels
USB interface for	mini-B 5-contact 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	6 or 10 pushbuttons (available as single
	or double-action buttons
	and configurable as selectors with n positions)
	Ø 14 mm - travel 7 mm
	Endurance :
	1 million cycles for 1st level pushbutton action
	500 000 cycles for 2nd level pushbutton action
Navigation and	2 pushbuttons to
startup buttons	configure the product (above the
	emergency stop palmswitch)
	On / Validation button (for startup
	and validation of menus on screen)
	Endurance:
	500 000 cycles
Emergency stop	2 positions with rotary unlock system
Standby function	User-definable time delay
	(from 1 s to infinity)

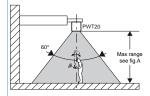
⁽¹⁾ Range varies according to environment conditions around operator module and reception antenna (steel works, metal walls, etc. ...).

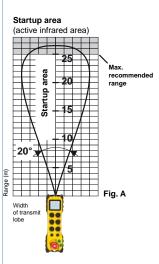
ADDITIONAL OPTIONS

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).





ACCESSORIES



Standard charger for 6+4 or 10+4 Gama operator modules

Reference : PWCG060

PWCG100

Dimensions : • 355x94x96 mm

• 428x94x96 mm

Power supply: 12/24 VDC

Power: 7 w



Battery charger

Reference : PWC Dimensions : 170x65x36 mm

Power supply : 12/24 VDC

Power: 7w

Plug-in battery

Reference : PWB

Dimensions: 57x56x16 mm

Voltage : 3,7V Capacity : 1900mAh



Mains power adapter

Reference : UBCU Dimensions : 41x72x39 mm

Power supply: 100-240VAC

Output : 12VDC Power : 7 W



Reference : PWR

Reference : PWR

Dimensions: 470x147x8 mm

Mains power adapter for rack

Reference : PWAUR Power supply : 100-240VAC

Output : 12VDC Power : 36 W



Removable 2-point shoulder strap

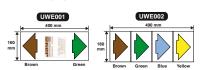
Reference : UWE102

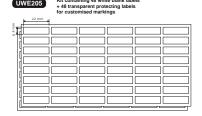
Sheet of adhesive labels for operator module :

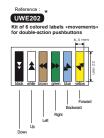
The button functions are identified by adhesive labels in the recesses provided in the operator module casing next to the pushbuttons.

standard sheet of labels supplied with operator module

Sheet of adhesive labels for your mobile equipment:









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