



it's cool to be safe
explosion proof solution for the global market

Supermec

explosion proof electrical equipment





GUA

CSD

GUB - A

GUBA - A

GUBA - S

EJB - A

EJB - S

ECS

UH - UP

CSE - A

CSE - P

CSE - S

WH - WP - WA

UVB - UVD

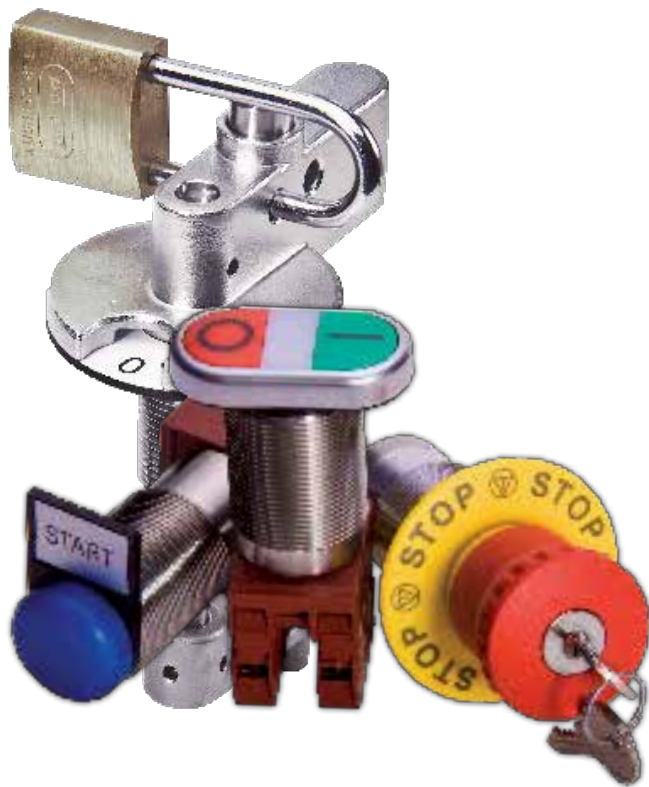
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UH - UP

The UH-UP operators are normally used in the chemical and petrochemical plants, off-shore platforms, refineries and any other industry where hazardous atmospheres (gas and combustible dust) are potentially present.

The UH-UP operators range has been designed to meet the main requirements of power distribution, monitoring and signaling, and other electrical functions inside the hazardous area of the plant.



Function

The UH-UP operators are normally installed on EJB , GUB, GUBA and CSD enclosures series used for the following main applications:

- control station and instrument housing
 - motor starter unit
 - electronic grounding system
 - lighting control panel
- and fitted with other electrical and/or electronic equipment as per our client specific requirements.

Construction

The material used to manufacture the UH-UP operators series have been studied to grant the maximum protection against the highly corrosive agents present in these industries:

- bushing and shaft, as components directly involved into the explosion proof protection, are made of stainless steel AISI 316. The external body can be made of copper free aluminium or stainless steel
- external handles and internal leverages activating switches and breakers up to 1000 Amp. are made of stainless steel AISI 316
- external handles padlockable (two padlocks) in different position (upon request)
- internal gasket of silicone
- external push button units and pilot light diffusers are made using antistatic and UV-protected polymers
- external push button units have passed a mechanical endurance test of 15 million operation cycles (standard), 1 million (selector) and 300 thousands (emergency)
- contact blocks base can be equipped up to four contacts (NO, NC, NO+NC)
- diffuser with special design to grant a high visibility degree in any situation
- pilot light window of thermoresistant glass sealed with auto-leveling silicone
- integrated labels of polycarbonate, aluminium and stainless steel with possibility to customize the marking as per client specifications



*The new handles have a compact design with an integrated label granting the precise indication of the position of the switch in any moment.
The handle can be equipped with two padlocks so to increase the level of security by unauthorized operations.*

Protection

certificate number:	IMQ 11 ATEX 029 U	TC RU C-IT.AA87.B.00509
marking:	Ex II 2GD Ex d IIC Gb T6 Ex tb IIIC T85°C Db	
ambient temperature:	-60°C +60°C	
degree of protection:	IP66	
conformity:	Directive ATEX 2014/34/EU	TP TC 012/2011
standards:	IEC-EN60079-0 IEC-EN60079-1	IEC-EN60079-31
	ГОСТ 31610.0 ГОСТ IEC 60079-1	ГОСТ Р МЭК 60079-31
category:	suitable for Zone 1- 2 (gas) and Zone 21 - 22 (dust)	



Code	Colour	Padlock
UHB	●	-
UHBP	●	2

UHB - UHBP

Handle unit for MCB up to 125 Amp. complete with integrated label with ON - OFF indicators. UHBP model is provided with a padlockable system in OFF position to increase the level of security by unauthorized operators. The handle can be equipped with two padlocks. Electrical components not included.



Code	Colour	Padlock
UHLB	●	-
UHLBP	●	2

UHLB - UHLBP

Handle unit for MCCB up to 1.000 Amp. complete with integrated label with ON - OFF indicators. UHLBP model is provided with a padlockable system in OFF position to increase the level of security by unauthorized operations. The handle can be equipped with two padlocks. Electrical components not included.



Code	Colour	Padlock
UHS	●	-
UHSP	●	2

UHS - UHSP

Handle unit for rotary switch up to 63 Amp. complete with integrated label with different indications as per program. UHSP model is provided with a padlockable system in OFF position to increase the level of security by unauthorized operations. The handle can be equipped with two padlocks. Electrical components not included.



Code	Colour	Resistance
UHP	●	22 to 10 MΩ

UHP

Knob unit for potentiometer with range of resistance values:
 Linear Taper: 22 to 10M Ω
 Logarithmic Taper: 100 to 2.2MΩ
 The knob is provided with a large visual display and a locking lever for fixed position.

UPB

Spring-return (stay-put upon request) flush pushbutton unit.

Bushing \varnothing M32.

Supplied complete with one electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1). Available in different colours as per side table and as option, engraved with electrical symbols.

Code	Colour	Contact
UPB R2	●	NC
UPB W1	○	NO
UPB G1	●	NO
UPB X2	●	NC
UPB Y1	●	NO
UPB B1	●	NO
UPB O1	●	NO



UPL LED pilot light unit. Bushing \varnothing M32. Supplied complete with LED unit in different voltage as per electrical circuit requirements.

Available in different colours as per side table and as option, engraved with electrical symbols.



Code	Colour	Contact
UPL R1	●	LED 12-30-Vac/dc
UPL W1	○	LED 12-30-Vac/dc
UPL G1	●	LED 12-30-Vac/dc
UPL O1	●	LED 12-30-Vac/dc
UPL B1	●	LED 12-30-Vac/dc

Code	Colour	Contact	Code	Colour	Contact
UPL R2	●	LED 120 Vac	UPL R3	●	LED 230 Vac
UPL W2	○	LED 120 Vac	UPL W3	○	LED 230 Vac
UPL G2	●	LED 120 Vac	UPL G3	●	LED 230 Vac
UPL O2	●	LED 120 Vac	UPL O3	●	LED 230 Vac
UPL B2	●	LED 120 Vac	UPL B3	●	LED 230 Vac



Code	Colour	Contact
UPBM R2	●	NC

UPBM

Spring-return mushroom pushbutton unit. Bushing \varnothing M32.

Supplied complete with one electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1). Available, as option, also in different colours.



Code	Colour	Contact
UPBEP R2	●	NC
UPBEPW R2	●	NC

UPBEP - UPBEPW

Push-pull emergency pushbutton unit. Bushing \varnothing M32. Supplied complete with one electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1).

UPBEPW model is provided with two top windows showing the working status: green = non actuated, red = actuated.



Code	Colour	Contact
UPBER R2	●	NC
UPBERW R2	●	NC

UPBER - UPBERW

Turn to release emergency pushbutton unit. Bushing \varnothing M32.

Supplied complete with one electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1). UPBERW model is provided with two top windows showing the working status: green = non actuated, red = actuated.



Code	Colour	Contact
UPBEK R2	●	NC

UPBEK

Key to release emergency pushbutton unit. Bushing \varnothing M32.

Supplied complete with one electrical contact as listed and as option, with different combinations of contacts. NO and NC for a maximum number of four units (see table 1).

UPBL

Spring-return luminaire pushbutton unit. Bushing \varnothing M32.

Supplied complete with LED unit in different voltage and one electrical contacts as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1).

Available in different colours as side listed.

Code	Colour	Contact
UPBL R	●	LED+NC
UPBL W	○	LED+NO
UPBL G	●	LED+NO
UPBL O	●	LED+NO
UPBL Y	●	LED+NO
UPBL B	●	LED+NO



UPBS

Stay-put or spring-return selector unit, available with different schemes (see table 2). Bushing \varnothing M32.

Supplied complete with one electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1). Available, as options in different colours.

Code	Colour	Contact
UPBS X1	●	NO
UPBS X2	●	NC



UPBH

Stay-put or spring-return long handle selector unit, available with different schemes (see table 2). Bushing \varnothing M32.

Supplied complete with one electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1). Available, as options in different colours.

Code	Colour	Contact
UPBH X1	●	NO
UPBH X2	●	NC



UPBK

Stay-put or spring return key selector unit, available with different schemes (see table 3). Bushing \varnothing M32.

Supplied complete with one electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1).

Code	Colour	Contact
UPBK 1	●	NO
UPBK 2	●	NC





Code	Colour	Contact
UPBD GR12	● ●	NO - NC
UPBD WX12	○ ●	NO - NC

UPBD

Spring-return double pushbutton unit.
Bushing \varnothing M32.

Supplied complete with two electrical contact as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1). Available, as options in different colours, with or without electrical symbols.



Code	Colour	Contact
UPBSB X12	●	NO - NC
UPBSC X11	●	NO - NO
UPBSC X12	●	NO - NC
UPBSC X22	●	NC - NC

UPBSB - UPBSC

Stay-put or spring return selector unit, available with different schemes (see table 2). Bushing \varnothing M32.

Supplied complete with two electrical contacts as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1).



Code	Colour	Contact
UPBHB X12	●	NO - NC
UPBHC X11	●	NO - NO
UPBHC X12	●	NO - NC
UPBHC X22	●	NC - NC

UPBHB - UPBHC

Stay-put or spring return long handle selector unit, available with different schemes (see table 2). Bushing \varnothing M32.

Supplied complete with two electrical contacts as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1).



Code	Colour	Contact
UPBKB 12	●	NO - NC
UPBKC 11	●	NO - NO
UPBKC 12	●	NO - NC
UPBKC 22	●	NC - NC

UPBKB - UPBKC

Stay-put or spring return key selector unit, available with different schemes (see table 3). Bushing \varnothing M32.

Supplied complete with two electrical contacts as listed and as option, with different combinations of contacts NO and NC for a maximum number of four units (see table 1).