## MANUAL CALL POINTS Intrinsically Safe (EExia), EExd, Weatherproof SM87 BG & PB Range



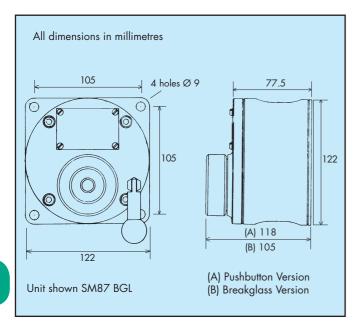


## Introduction

These manual fire alarm, emergency shutdown breakglass and pushbutton units have been designed for the most arduous environmental conditions. The units are both easy to install and maintain. Intrinsically safe EExia and flameproof EExd versions of each model are available. A choice of either stainless steel or alloy makes the range suitable for either the offshore or onshore industries.

- ★ Zone 0, Zone 1 and Zone 2 use\*.
- ★ EExia IICT4 or EExd IIC T5/T6.
- ★ ATEX aproved, Ex II 1G (EExia) Ex II 2GD (EExd).
- ★ BASEEFA certified.
- ★ UL Listed (PB only), Class I, Div 1, Groups C & D.
- ★ GOST 'R' & 'K'\* certified.
- ★ Chinese (CQST) certified.
- ★ Brazilian (Inmetro) certified.
- ★ CSA certified.
- ★ IP66 and IP67.
- ★ Certified temperature -55°C to +70°C\*.
- ★ Stainless steel or marine grade alloy.
- ★ Robust yet lightweight.
- ★ Easy to maintain.
  - \*Depending on version.





Both the EExiaIICT4 units and the EExdIICT6 units have the same external appearance. Also the internal components are identical throughout the range. Each unit can be wired for either NO, NC or CO contacts to customer specification.

## **Ordering Requirements**

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

## **SPECIFICATION**

Breakglass unit, latching Lift flap, Breakglass, latching		Type SM87BGL Type SM87LBGL	
		Type SM87PBL	
Push button, latching, key reset Push button, self reset		Type SM87PBM	
		туре эмбл гым	
Voltage:	EExd 24V a.c./d.c. EExia 28V.		
Rating:	2 amp.		
Switches:	2 pole c/o, wired to terminals.		
	Optional up to 4 pole (UL version	2 pole only).	
Terminals:	Will accept up to 2.5mm² cable.		
Entries:	Up to 4 x 20mm or 25mm ISO	EExd/EExia.	
	Up to $4 \times 1/2$ " or $3/4$ " NPT	UL	
Optional	A red high intensity LED can be fitt	ted	
Indicator:	for alarm indication.		
Material:	Grade 316 ANC4B Stainless Stee	l or	
	LM 25 TF Marine Grade Alloy.		
Weight:	3.8 kg. steel (approx.) or 2.5 kg. alloy (approx.).		
Finish:	Epoxy paint finish as standard or to customer's specification.		
Certification:	CENELEC EN 50014, EN50018 (for Exd) and EN50020 (for Exi).		
	EExiallC T4 Cert No. Baseefa 02 ATEX 0152X.		
	EExdIIC T5/T6 Cert No. Baseefa 03 ATEX 0075.		
	Ul Listed: Class I Div1 Groups C & D (PBL only)		

**UL Listed:** Class I, Div1 Groups C & D (PBL only).

Listing No: 186629.

Resistor Values: 470R minimum (D.C. & I.S. units only). Duty Label

CSA Certification: Class I Groups A-D I.S. version (SM87 PBI only). Class I, Div 1 & 2, Group D (Exd - SM87 PB & SM87 BG).

GOST 'R' Certification: 1 Exib IICT4, 1 Exd IICT4 Russian Fire Approved (VNIIPO).

GOST 'K' Certification: Exib IIC T4.

Chinese Certification: CQST - Exia IIC T4, Exd IIC T5/T6. Brazilian (Inmetro) Certification: BR-Ex d IIC T5/T6 BR-Ex ia IIC T4

Certified	EExd*	–55°C to +70°C. Exi*–55°C to +55°C.
Temperature:		-20°C to +55°C (LED version only).
	UL	-55°C to +70°C, -20°C to +70°C (LED version only).
	CSA	-50°C to +55°C (Exd), -50°C to +40°C (Exi).
	*Note: i	includes ATEX, GOST, Brazilian & Chinese versions.
Ingress	IP66 and	d IP67.
Protection:	SM87 P	B IP68 (40m for 8 hours).

Label

**Features** 

Unit Type Model SM87	Mate	rial Certif	ication
*Model  Breakglass Latching Lift Flap Breakglass Latching Push Button Latching key reset Push Button Only Momentary Action  *UL version only available in PBL model.	Code BGL LBGL PBL PBM	Certification  EExialICT4  EExdIICT6  UL  CSA – Exd  CSA – Exi  GOST 'K' – Exi  GOST 'R' Exi  GOST 'R' Exd  Chinese Exi  Chinese Exd  Inmetro Exi	Code  I D UL DC IC IK IG DG IQ DQ IM DM
	*Material Stainless St Alloy *UL version on	A	

in Alloy. NOTE: The units can be internally wired to suit customers' specifications. Please discuss your requirements with us.

Entries	Code
20mm	1
25mm	2
1/2" NPT	3
3/4" NPT	4
Other	5
Please specify	
Тор	*T
Bottom	*B
RHS	*R
LHS	*L
*prefix position with size code	
i.e. 1T 1B = 20mm Top and	
Bottom	

Entries

Code
1
2
3
4
0
Ν

	Features	Code
	Not required	N
	LED	Α
	Resistor Series	G
	Resistor EOL	н
	Diode	*D
	3 Pole c/o Switc	h T
	4 Pole c/o Switc	h F
	*Specify values.	
To	ag Label Cod	е
Required Y		
Not Required N		
		_

Finish	Code
Red	R
Blue	В
Yellow	Υ
Yellow/	
Black Stripes	Χ
Special Finish	S



All the above specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

Finish