

# JUNCTION BOXES

## EEExe – Increased Safety & Weatherproof

### JB10 & JB11 Ranges



## Introduction

These GRP terminal boxes have been designed for use in hazardous and hostile environments.

The robust design, coupled with corrosion-free GRP and high ingress protection, ensure a long life, low maintenance product.

- ★ Zone 1 & 2 use.
- ★ EEExe II T3, 4, 5 & 6.
- ★ ATEX approved Ex II 2G.
- ★ BASEEFA certified.
- ★ UL listed for USA and Canada
  - Class I, Div 2, Groups A-D
  - Class I, Zone 1, AExe IIC T4 & T5
- ★ IP66 & IP67.
- ★ \*Certified temperature –55°C to +55°C.
- ★ GRP.
- ★ Lightweight.
- ★ Robust.
- ★ Corrosion free.
- ★ Retained cover screws.
- ★ Optional gland continuity plate.
- ★ Optional internal conductive coating.
- ★ Variety of colours available.
- ★ Optional L.E.D.
- ★ Mixed rail mounted terminals.
- \*Depending on version.

Cooper MEDC Ltd, Colliery Road,  
Pinxton, Nottingham NG16 6JF, UK.  
Tel: +44 (0)1773 864100  
Fax: +44 (0)1773 582800

Cooper MEDC (USA) 3413 North Sam Houston Parkway,  
West, Houston, Texas 77086, USA.  
Tel: +1 (713) 937 9772  
Fax: +1 (713) 937 9773

Sales Enq. Fax: +44 (0)1773 582830 Sales Orders Fax: +44 (0)1773 582832  
E-Mail: [medc.sales@cooperindustries.com](mailto:medc.sales@cooperindustries.com) Web: [www.medc.com](http://www.medc.com)



## Specification

**Certification:** Cenelec EN50014, EN50019 & EN50028.  
EExe II T4, 5 & 6.  
EExem II T4, 5 & 6 (LED version).  
Certificate No. Baseefa 03ATEX0171X.  
**UL Listed for USA and Canada:**  
Class I, Div 2, Groups A-D and  
Class I, Zone 1, AExe IIC T4 & T5.  
UL Listing No. E237592.

**Material:** Glass reinforced polyester (anti-static) stainless steel cover screws.

**Finish:** Self coloured black or epoxy painted to customer's specification.

**Weight:** JB10, 1.1 Kg. average.  
JB 11, 1.8 Kg. average.

**Certified Temperature:** Standard -20°C to +55°C.  
Optional -55°C to +55°C (MK6/6 only).

**Ingress Protection:** IP66 & IP67.

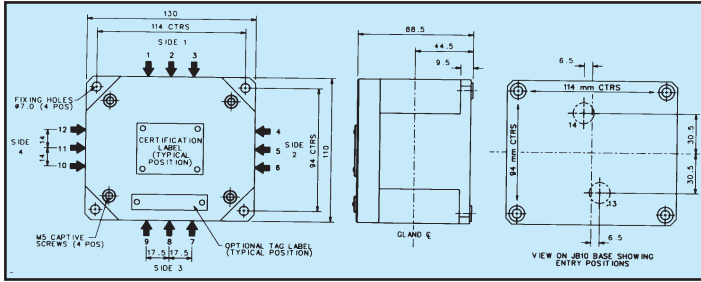
**Gland Continuity:** Via an internal plate.

Terminal Type/Size	Max No. of Terminals		Max Voltage	Max Current	T Rating
	JB10	JB11			
SAK 2.5	12	15	550	15	T4
SAK 4	10	14	550	21	T4
SAK 6N	8	12	550	26	T4
SAK 10	5	8	550	37	T4
SAK 16	—	7	550	47	T4
HTB4/HTB6	1	1	550	37	T6
BTB4/BTB6	1	1	JB10=500 JB11=600	37	T6
MK6/6	1	1	418	26	T5
BK6	1	—	275	21	T5
UK 2.5 B-Ex	11	14	418	15	T4
UK 5-Ex	9	13	418	21	T4
UK 10-Ex	7	11	418	37	T4
UK 16-Ex	5	7	418	47	T4
AKZ 2.5	12	18	60	15	T4

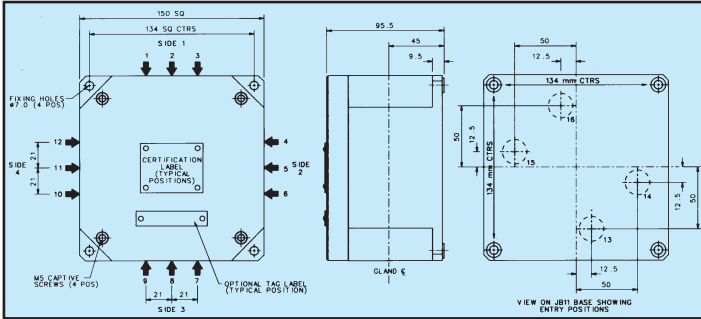
All Junction Boxes will be supplied with an internal earth terminal appropriate to the terminals fitted.

If more than one internal earth terminal is required the maximum number of feed-through terminals must be reduced.

Increased quantities of terminals are available, depending upon the number of cable entries. Please contact MEDC with your requirements.



JB10



JB11

JB10 GLAND DETAILS

GLAND ENTRIES	Maximum No. of Gland Entries Sides 1 & 3	Maximum No. of Gland Entries Sides 2 & 4		Maximum No. of Gland Entries (Base)
	With or Without Earth Continuity	With Earth Continuity	Without Earth Continuity	With or Without Earth Continuity
M16	2	2	2	2
M20 'O'	2	1	2	2
M20 'A'	2	1	1	2
M25	1	1	1	N/A
M32	1	1	1	N/A

JB11 GLAND DETAILS

GLAND ENTRIES	Maximum No. of Gland Entries per Side With or Without Earth Continuity	Maximum No. of Gland Entries (Base) With or Without Earth Continuity
M16	2	4
M20 'O'	2	4
M20 'A'	2	4
M25	2	N/A
M32	1	N/A

## 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.

**For standard products, available ex-stock, contact sales office for details.**

Terminal Box	Certification	Terminals	External Earth	Gland Continuity	Side Cable Entries	Tag Label	Options	Finish
JB10 JB11								
Certification Code		Type Code	Type Code	Continuity Code	Size Code	Label Code	Option Code	Finish Code
ATEX B		SAK 2.5 A*	None N	None N	None N	None N	None N	Natural (Black) N
UL UL		SAK 4 A*	ESO001 R*	Yes E*	M16 *A	Yes T	Extra Internal Earth *W	Red R
		SAK 6N C*	ESO003 S*		M20 *B	Please specify	Cover Entry *X	Blue B
		SAK 10 D*			M25 *C		Base Entry *Y	Other (specify) S
		SAK 16 E*			M32 *D		Counterbored	
		HTB 4† F*			1/2" NPT M**		Side Entries *Z	
		HTB 6† G*			3/4" NPT O**		LED L	
		BTB 4† H*					Stainless Steel	
		BTB 6† I*					internal fittings S	
		MK6/6 J*					Internal conductive	
		BK6 K*					coating C	
		UK 2.5 B-Ex L*					*Please discuss your	
		UK 4 -Ex M*					requirements with MEDC	
		UK 10 -Ex N*					Application Engineers	
		UK 16 -EX O*					prior to ordering.	
		AKZ 2.5† P*						
		SAKK 4† Q*						

\*Suffix with number of terminals, e.g. B6 = 6 x SAK4  
Please note: Mixed combinations of SAK or UK terminals can be supplied, e.g. 3 x SAK 2.5 & 4 x SAK 4.  
†Not available UL.



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.