

Product Name – 82E

Date – 30/03/2004

Issue A

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TM176

MEDC
82E JUNCTION BOXES
TECHNICAL MANUAL

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1.0 **Installation**

The Junction Boxes are mounted via 2 Dia 5.6 holes on the base of the unit. Units may be fixed to vertical, horizontal or angled surfaces.

The use of stainless steel fasteners and anti-vibration washers is recommended.

1.1 **Cable Termination**

CAUTION: Before opening the cover assembly, ensure that the power supply to the enclosure is isolated and an explosive gas atmosphere is not present.

Unscrew the 4 x M6 screws in the cover of the Junction Box.

Remove the cover exposing the terminals and the internal earth stud. See 1.2 General Termination Details.

After cable termination has been completed, the cover can be replaced and secured with the 4 x M6 fixing screws.

MEDC recommend that all cables and cores should be fully identified.

Ensure that only the correct certified glands are used and that the assembly is correctly earthed.

1.2 **General Termination Details**

All cable entry holes to be fitted with suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. Unused entries are to be fitted with suitable BASEEFA certified flameproof stopping plugs.

Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as equipment (not a component) under an EC type examination certificate to directive 94/9/EC may also be used in the manner specified above.

All cable glands should be of an equivalent IP rating to that of the unit. In order to maintain the IP rating of the enclosure, the glands should be sealed to the unit using a sealing washer or sealing compound. If a sealing washer is used please ensure that a minimum of five full thread engagement is maintained.

2.0 **Operation**

The Junction Boxes are Cast Iron, EExe certified and come complete with a range of standard terminals, with optional external paint finishes or galvanised.

3.0 **Maintenance**

During the working life of the unit, it should require little or no maintenance. However, if abnormal or unusual environmental conditions occur due to plant damage or accident etc., then visual inspection is recommended.

If a unit fault should occur, then the unit can be repaired by MEDC. All parts of the unit are replaceable.

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4.0 **Certification**

Certified to EN50014:1997 + amd. 1 & 2 and EN50019:2000 EEx e II T6.

ATEX Certificate No. Baseefa03ATEX0107X

The ATEX certificate and the product label carry the ATEX group and category marking:  II 2 G

Where:  signifies compliance with ATEX

II signifies suitability for use in surface industries

2 signifies suitability for use in a zone 1 area

G signifies suitability for use in the presence of gases

5.0 **Special conditions for safe use**

1. The installer must ensure that the schedule of limitations for the terminals outlined in the appropriate component certificate are met.
2. Only ATEX EEx e approved cable glands can be used which maintain the IP54 ingress protection rating of the enclosure.
3. Any unused cable entries must be filled with ATEX EEx e approved blanking plugs.

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