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**beka BA484D
Intrinsically Safe
Modbus RTU
Displays**

beka BA484D Intrinsically Safe Modbus RTU Displays Installation Guide

Contents

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beka BA484D Intrinsically Safe Modbus RTU Displays

Description

Intrinsically safe instruments incorporating push-buttons and two solid state outputs that can display text and simple graphics in a hazardous area. The field mounting BA484D and the panel mounting BA488C are low cost operator interfaces incorporating Modbus RTU, BEKA and a Legacy protocol, ideal for simple machine and process control applications.

Model	Mounting	Material	Power and communication
BA484D	Field mounting	GRP with separate terminal compartment, IP66	Via safe area mounted BA201 communication isolator which has as electable RS232 or RS485 port.
BA488C	Panel mounting	Noryl & aluminium with IP66 front panel	

Intrinsic safety

Both models have IECEx, ATEX and UKEX gas certification, plus other approvals, such as FM. The field mounting model has optional dust certification. See full instructions.

Certification codes

- II 1G Ex ia IIC T5 Ga -40°C ≤ Ta ≤ +60°C

Optional dust certification for BA484D

II 2D Ex ia IIIC T80° Db IP66 -40°C ≤ Ta ≤ +60°C

Safety parameters

See full instructions or certificate

Special conditions for safe use

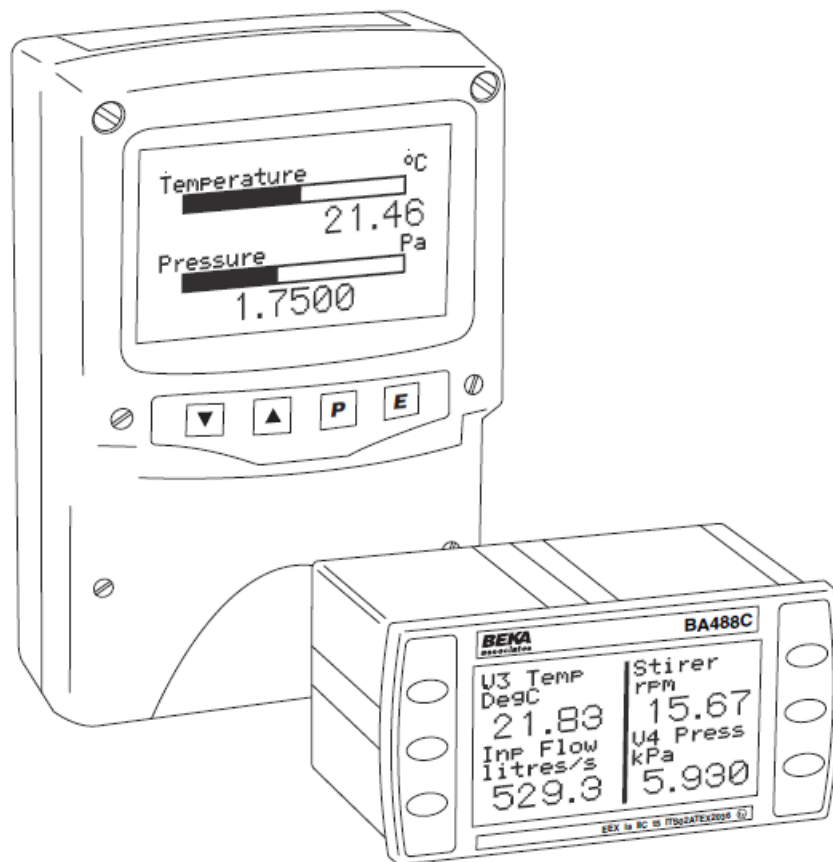| BA484D for use in a dust atmosphere	Dust certification is an option. Confirm correct model by checking product label before installation in a dust atmosphere.
Both models	Installation in Zone 0 shall be such that an ignition due to impact between iron/steel and the aluminium label of field mounting models, or the aluminium enclosure of panel mounting models is excluded.

Installation: BA484D Field mounting
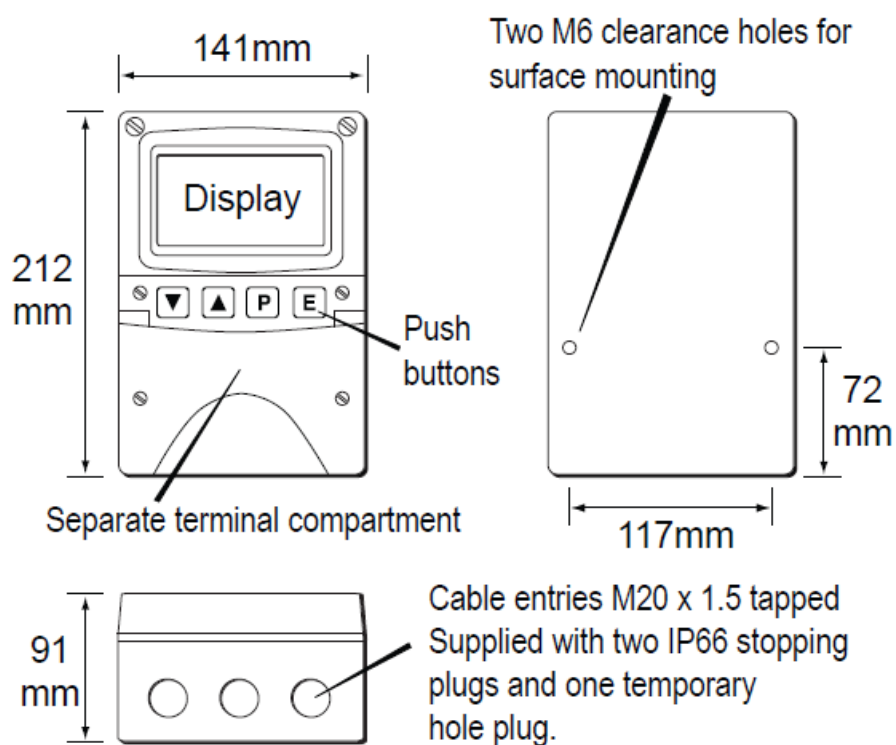
Terminal Connections: BA484D Field mounting

Optional external switches Switch outputs
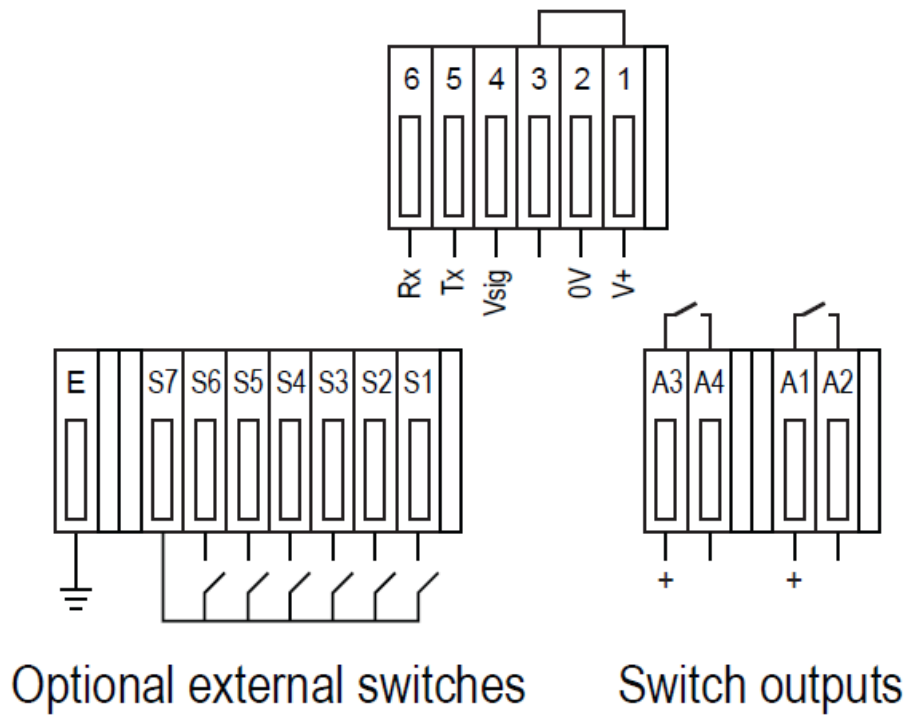
Essential Health and Safety Requirements for BA484D & BA488C Intrinsically Safe Modbus RTU displays Serial Data displays
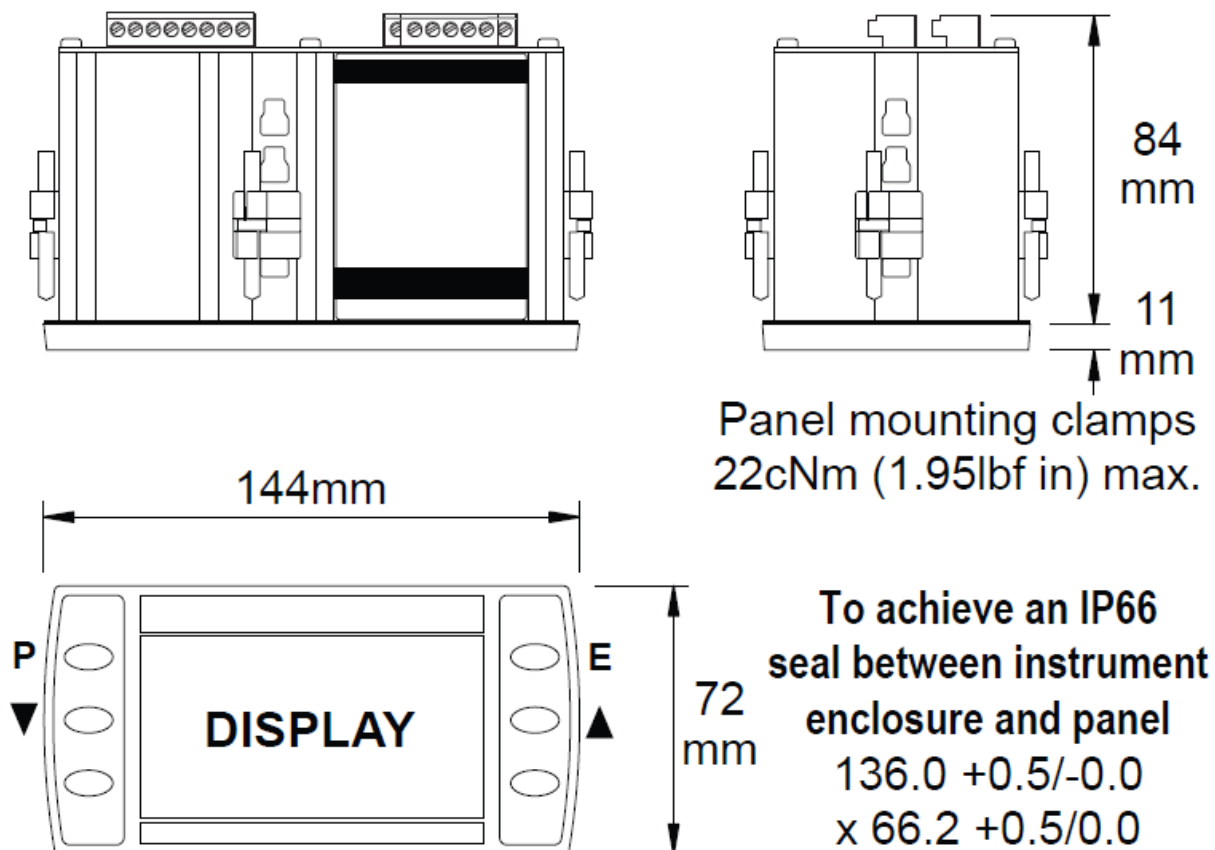
UK

- e-mail: **sales@beka.co.uk**
- web: **www.beka.co.uk**

Installation: BA488C Panel mounting

84 mm

11 mm

144mm

P ▼ **DISPLAY** E ▲

72 mm

Panel mounting clamps 22cNm (1.95lbf in) max.

To achieve an IP66 seal between instrument enclosure and panel 136.0 +0.5/-0.0 x 66.2 +0.5/0.0

Terminal Connections: BA488C Panel mounting

Do not use

A1 A2 A3 A4

+ +

Switch outputs

Case

1 2 3 4 5 6

V+ 0V Vsig Tx Rx

S1 S2 S3 S4 S5 S6 S7

Case
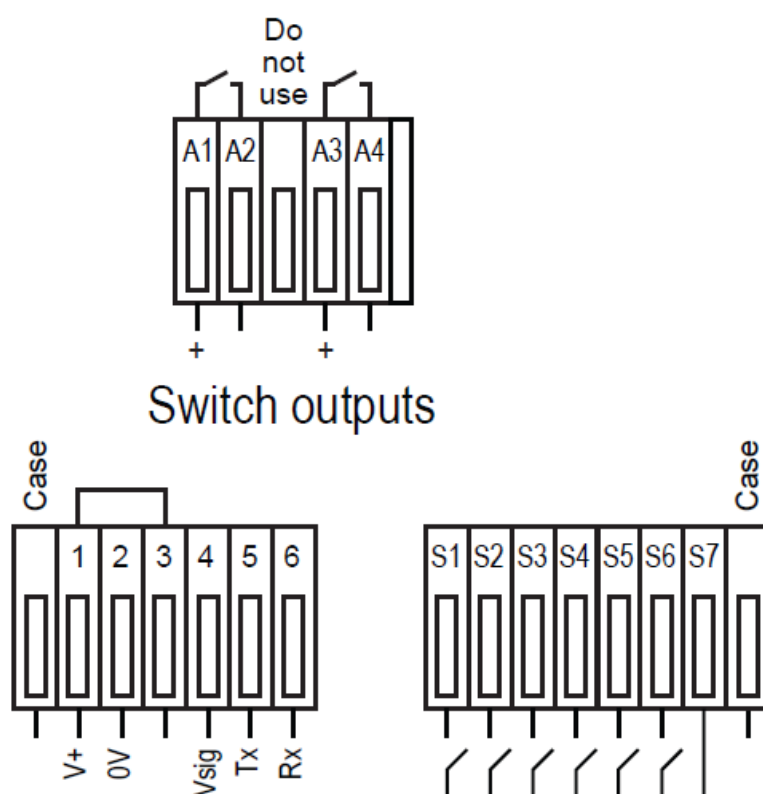
Optional external switches

Connections
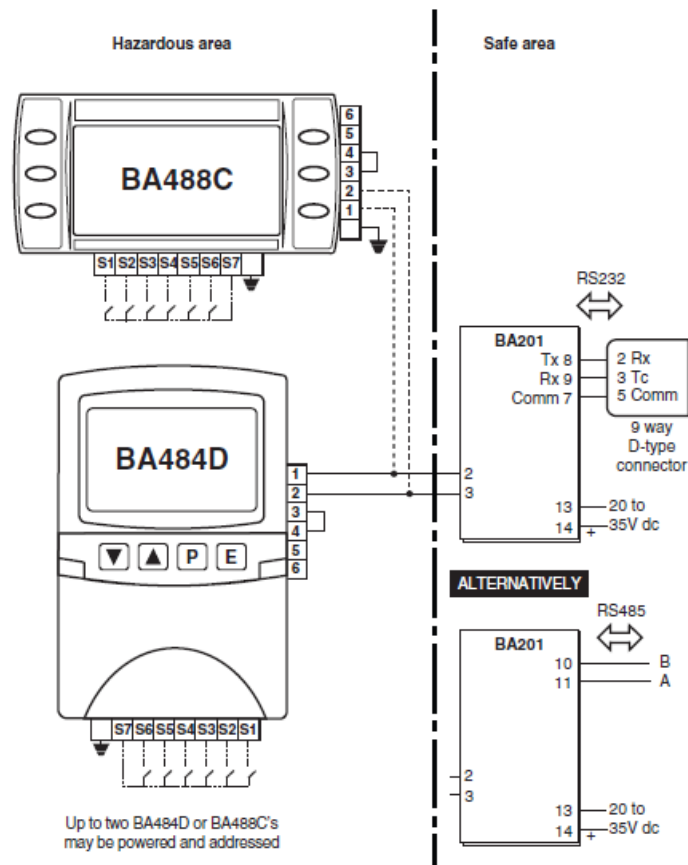
Combined EU Declaration of Conformity

This declaration of conformity for electrical apparatus is issued under the sole responsibility of the manufacturer.

- **Description**

  BA484D field mounting & BA488C panel mounting Modbus RTU Serial Data displays.
- **Manufactured by**

  BEKA associates Ltd, Old Charlton Road, Hitchin, Herts. UK. SG5 2DA
- **Council Directives this equipment complies with: 2014/34/EU (ATEX Directive)**

  Relating to equipment and protective systems intended for use in potentially explosive atmospheres.

Provisions of the Directive fulfilled by the equipment:

BA484D

ITS02ATEX2035/2 issue 2 23/01/2012 Group II Category 1G
Ex ia IIC T5 Ga –40°C ≤ ta ≤ +60°C

Optional Group II Category 2D Ex ia IIIC T80°C Db –40°C ≤ ta ≤ +60°C IP66

BA488C

ITS02ATEX2036/1X issue 1 23/01/2012 Group II Category 1G Ex ia IIC T5 Ga –40°C ≤ ta ≤ +60°C

Notified Body for EU-Type Examination and production

- INTERTEK ITALIA SPA 2575
- Via Guido Miglioli, 2/A 20063
- Cernusco sul Naviglio (MI) Italy

Standards used:
IEC 60079-0:2011 and IEC 60079-11:2011 Remains compliant with EN IEC 60079-0:2018; EN 60079-11:2012

2014/30/EU (EMC Directive)

Standards used:
EN 61326-1:2021

- 2011/65/EU (RoHS Directive) relating to hazardous substances in electronic and electrical equipment.
- 2015/863/EU additional substances added by amending Annex II to Directive 2011/65/EU as regards the list of restricted substances.

$\mathsf{C}\,\mathsf{E}$ **mark first affixed in 2002**

Authorised Signatory: Issue 1 16th Feb 2023

Olivier Lebreton CEng MIET Managing Director

Manuals, certificates and datasheets can be downloaded from **https://www.beka.co.uk/ba484**
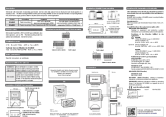
FAQs

- **Q: What certifications do the models have?**

  A: Both models have IECEx, ATEX, UKEX gas certification, and additional approvals such as FM.

- **Q: How can I confirm the correct model for use in a dust atmosphere?**

  A: Verify the product label before installation to ensure the correct model is selected for use in a dust atmosphere.

Documents / Resources

 beka BA484D Intrinsically Safe Modbus RTU Displays [pdf] Installation Guide
BA484D, BA488C, BA484D Intrinsically Safe Modbus RTU Displays, BA484D, Intrinsically Safe
Modbus RTU Displays, Modbus RTU Displays, RTU Displays, Displays

References

- **User Manual**