

## 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 a selectable 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  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

### Optional dust certification for BA484D

II 2D Ex ia IIIC T80° Db IP66  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

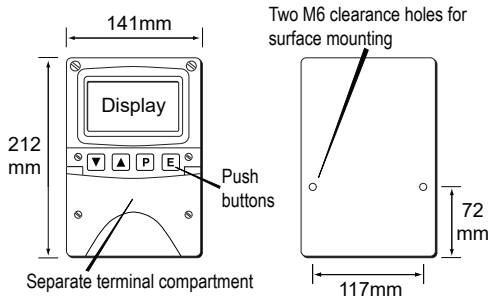
## Safety parameters:

See full instructions or certificate

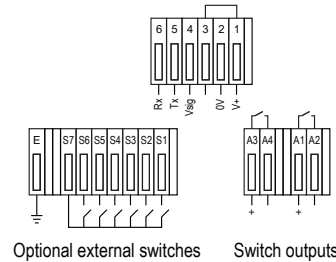
## Special conditions for safe use

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



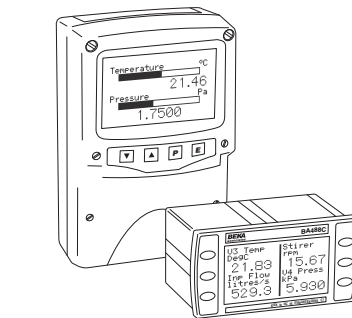
## Terminal Connections: BA484D Field mounting



Optional external switches Switch outputs

**Essential Health and Safety Requirements for BA484D & BA488C Intrinsically Safe**  
Modbus RTU displays  
Serial Data displays

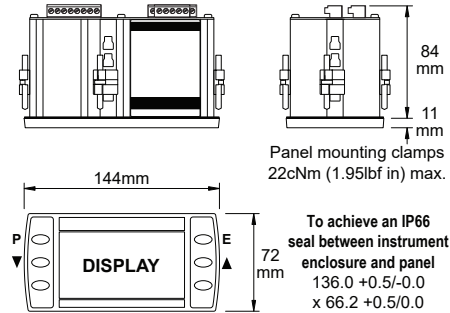
UK



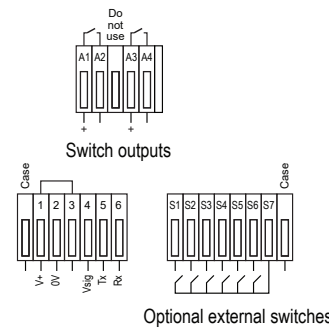
Issue 1  
10th June 2024

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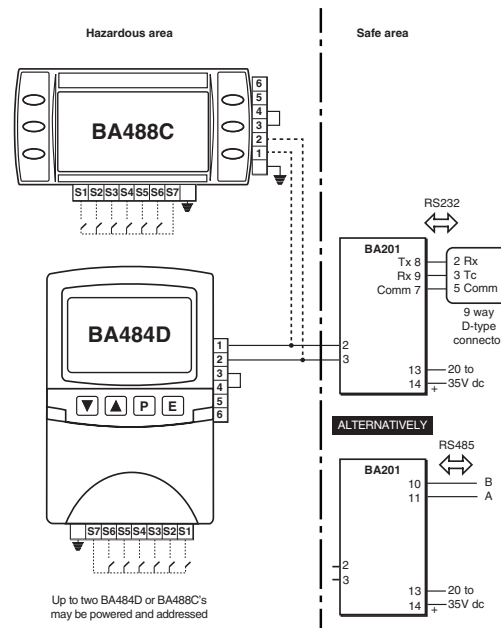
## Installation: BA488C Panel mounting



## Terminal Connections: BA488C Panel mounting



## 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  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

**Optional** Group II Category 2D  
Ex ia IIIC T80°C Db  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$  IP66

### BA488C

ITS02ATEX2036/1X issue 1 23/01/2012  
Group II Category 1G  
Ex ia IIC T5 Ga  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

### 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.

**CE mark first affixed in 2002**

**Authorised Signatory:** Issue 1 16th Feb 2023

*Signature*

Olivier Lebreton CEng MIET  
Managing Director



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