

## Description

Panel mounting intrinsically safe loop powered Set Point Station [set point generator] that enables the 4/20mA loop current to be adjusted by the front panel push buttons, or by an optional, external panel mounting BA490 rotary encoder.

Model	Mounting	Output	Digits	Enclosure material	Panel cut-out
BA427E	Panel mounting	4/20mA	5 x 12.7mm high + bargraph	Noryl IP66 front	90.0+0.5/-0 x 43.5 +0.5/-0
BA427E-SS				316-Stainless Steel impact resistant IP66 front	

## Intrinsic safety

Both models have IECEx, ATEX and UKEX gas and dust certification

### Code:

II 1 G	Ex ia IIC T5 Ga	-40°C ≤ Ta ≤ +70°C	BA427E
II 2 D	Ex ia IIIC T80°C Db IP20	-40°C ≤ Ta ≤ +70°C	
II 1 G	Ex ia IIC T5 Ga	-40°C ≤ Ta ≤ +60°C	BA427E-SS
II 2 D	Ex ia IIIC T80°C Db IP20	-40°C ≤ Ta ≤ +60°C	

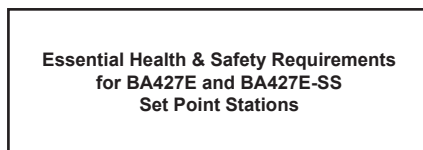
Maximum temperature increases to +70°C when impact resistant front is not used to maintain certification of an Ex e, Ex p or Ex t enclosure

### Parameters

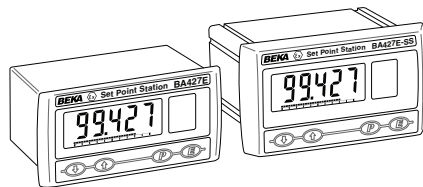
See certificates or full instuction manuals

## Special conditions for safe use

BA427E & BA427E-SS	When installed in Zone 0, installation shall be such that an ignition due to impact between aluminium label and iron/steel is excluded.
	When used in a Group IIIC conductive explosive dust atmosphere, the instrument shall be mounted such that the terminals are protected by at least an IP6X approved enclosure.
BA427E-SS	For installation in a Ex e, Ex p or Ex t panel enclosure, all connections must be supplied via appropriate rated and approved Zener barriers or galvanic isolators.
	When installed in an Ex p enclosure, the 4 vents at the rear of the BA427E-SS should not be obstructed.
	When installed purely as intrinsic safety equipment the ambient temperature range is -40°C ≤ Ta ≤ +70°C.



UK



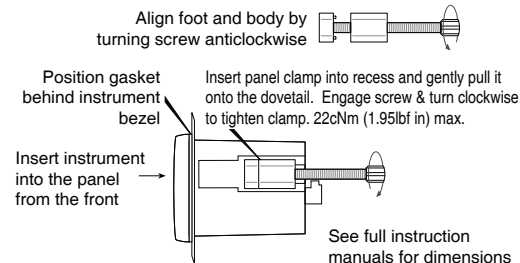
Issue 1  
10th June 2024

BEKA associates Ltd. Old Charlton Rd, Hitchin, Hertfordshire, SG5 2DA, UK Tel: +44(0)1462 438301 e-mail: sales@beka.co.uk  
web: www.beka.co.uk

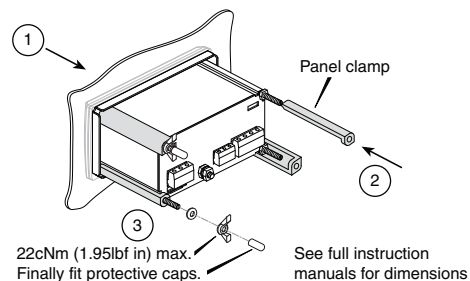


Manuals, certificates and datasheets can be downloaded from [https://www.beka.co.uk/427e\\_427e-ss](https://www.beka.co.uk/427e_427e-ss)

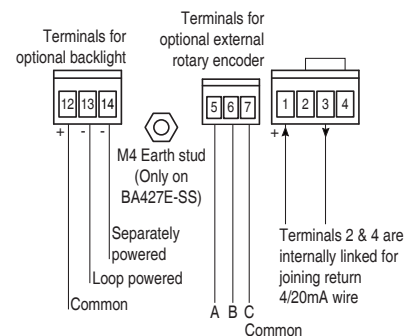
## Installation BA427E



## Installation BA427E-SS



## Connections: BA427E & BA427E-SS



## Repair

No attempt should be made to repair a faulty Set Point Station. Suspect units should be returned to BEKA associates or your local agent.

## Disposal

Set Point Station's should be correctly disposed of, not in household rubbish

## Combined EU Declaration of Conformity

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

### Description

The BA427E is an intrinsically safe panel mounting 4/20mA Set Point Station [set point generator] incorporating a 5 digit display. The BA427E-SS is identical, but is housed in a rugged stainless steel enclosure with an impact resistant IP66 front.

### 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:

**Ex** BA427E ITS12ATEX27718X  
issue 1 dated 21/04/2016  
Group II Category 1G  
Ex ia IIC T5 Ga Ta -40°C to +70°C  
Group II Category 2D  
Ex ia IIIC T80°C Db IP20 Ta -40°C to +70°C

BA427E-SS ITS15ATEX28365X  
issue 0 dated 11/11/2015

Group II Category 1G  
Ex ia IIC T5 Ga Ta -40°C to +60°C

Group II Category 2D  
Ex ia IIIC T80°C Db IP20 Ta -40°C to +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.

### Compliant with standards:

EN 60079-0:2012; EN 60079-11:2012  
and EN 60079-26:2007  
Compliant with EN IEC 60079-0:2018

### 2014/30/EU (EMC Directive)

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 2013

Authorised Signatory: Issue 1 19th March 2024

*Olivier Lebreton*

Olivier Lebreton CEng MIET  
Managing Director