

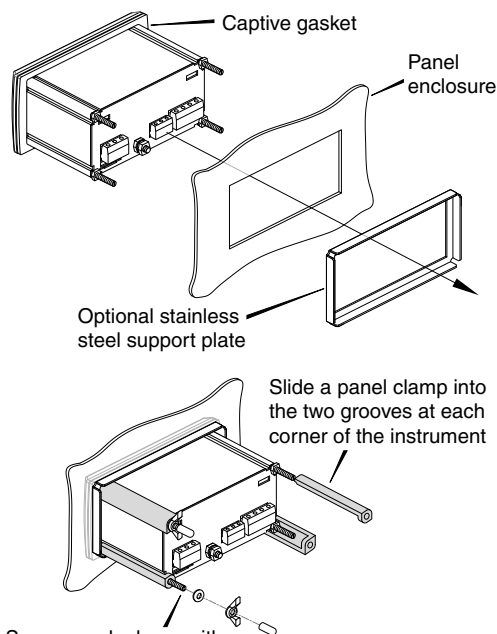
1. DESCRIPTION

The BA627E-SS is a rugged general purpose Set Point Station housed in a stainless steel panel mounting enclosure which enables the current flowing in a 4/20mA loop to be manually adjusted from within a process area. The BA627E-SS is loop powered and includes a five digit display that may be calibrated to show the 4/20mA current in linear engineering units.

This abbreviated instruction sheet is intended to assist with installation and commissioning, a comprehensive instruction manual describing system design and calibration is available from the BEKA sales office or may be downloaded from the BEKA website www.beka.co.uk/manuals.html.

2. INSTALLATION

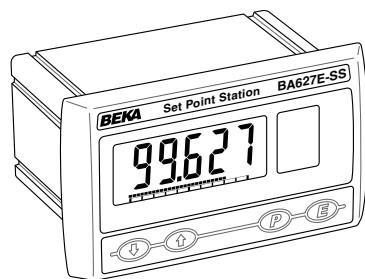
The BA627E-SS has IP66 front of panel protection but should be shielded from continuous direct sunlight and severe weather conditions. The rear of the instrument has IP20 protection.



Secure each clamp with a stainless steel washer and wing nut, tighten 22cNm (1.95lbf in) min. Finally fit protective caps.

Fig 2 Installation procedure

**Abbreviated instructions for
BA627E-SS rugged general purpose
panel mounting Set Point Station**



EMC

For specified immunity all wiring should be in screened twisted pairs, with the screens earthed at one point.

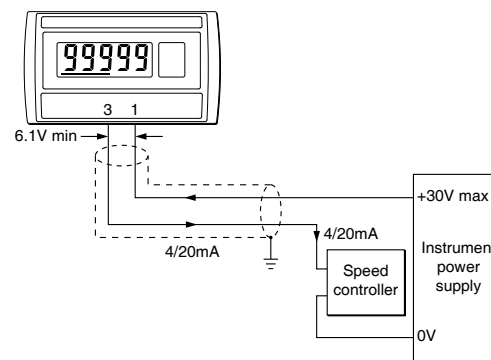


Fig 3 Typical control loop

Scale card

The Set Point Station's units of measurement are shown on a printed scale card visible through a window at the right hand side of the display. The scale card is mounted on a flexible strip that is inserted into a slot at the rear of the instrument as shown below.

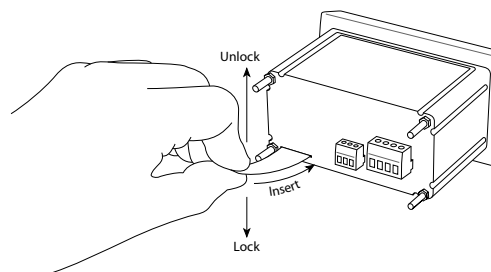


Fig 4 Inserting flexible strip carrying scale card into slot at the rear of Set Point Station.

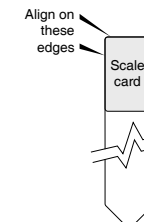
Thus the scale card can easily be changed without removing the Set Point Station from the panel or opening the instrument enclosure.

New Set Point Stations are supplied with a printed scale card showing the requested units of measurement, if this information is not supplied when the Set Point Station is ordered a blank card will be fitted.

A pack of self-adhesive scale cards printed with common units of measurement is available as an accessory from BEKA associates. Custom printed scale cards can also be supplied.

To change a scale card, unclip the protruding end of the flexible strip by gently pushing it upwards and pulling it out of the enclosure.

Peel the existing scale card from the flexible strip and replace it with a new printed card, which should be aligned as shown below. Do not fit a new scale card on top of an existing card.



Align the self-adhesive printed scale card onto the flexible strip and insert the strip into the indicator as shown.

Fig 5 Fitting scale card to flexible strip

3. OPERATION

The BA627E-SS Set Point Station is controlled and configured via four front panel push buttons located below the display. In the operating mode i.e. when the Set Point Station is controlling the loop current and the display is showing the output in engineering units, these push buttons have the following functions:

[E] * + [▼] Output current slowly decreases. After five seconds the rate of change accelerates so that large changes may be made quickly. Push **[E]** button first followed by **[▼]** button to decrease output current.

[E] * + [▲] Output current slowly increases. After five seconds the rate of change accelerates so that large changes may be made quickly. Push **[E]** button first followed by **[▲]** button to increase output current.

* Optional dependent on configuration

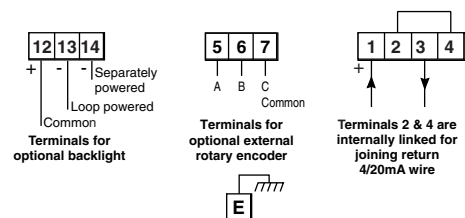
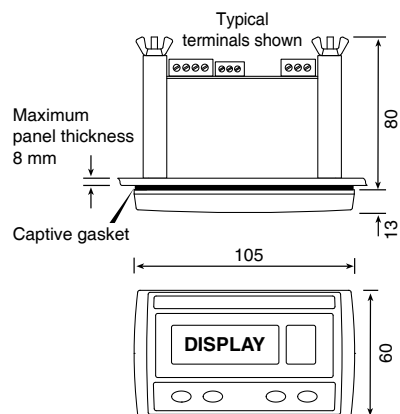
[E] Pushing this button for 5 seconds enables the Set Point Station output to be entered digit by digit in engineering units using the **[▼]** or **[▲]** push button to adjust the flashing digit and the **[E]** button to move control to the next digit. When set as required pressing the **[E]** button will enter the new set point value and the output current will change.

[P] While this button is pushed the BA627E-SS Set Point Station will display one of three alternatives depending upon how the instrument has been configured. Output current in mA; output current as a % of span or provide access to the pre-set outputs.

[▼] or **[▲]** While this button is pushed the Set Point Station will display the numerical value the Set Point Station has been calibrated to display with a 4mA or 20mA output.

[P] + [E] Access to configuration menu via optional security code.

Panel cut-out 90 +0.5 / -0.0 x 43.5 +0.5 / -0.0



Connect M4 earth stud to panel enclosure in which Set Point Station is mounted

Support panel wiring to prevent vibration damage

Fig 1 Cut out dimensions and terminals

The BA627E-SS is CE marked to show compliance with the European EMC Directive 2004/108/EC.

Issue 2
5th May 2017

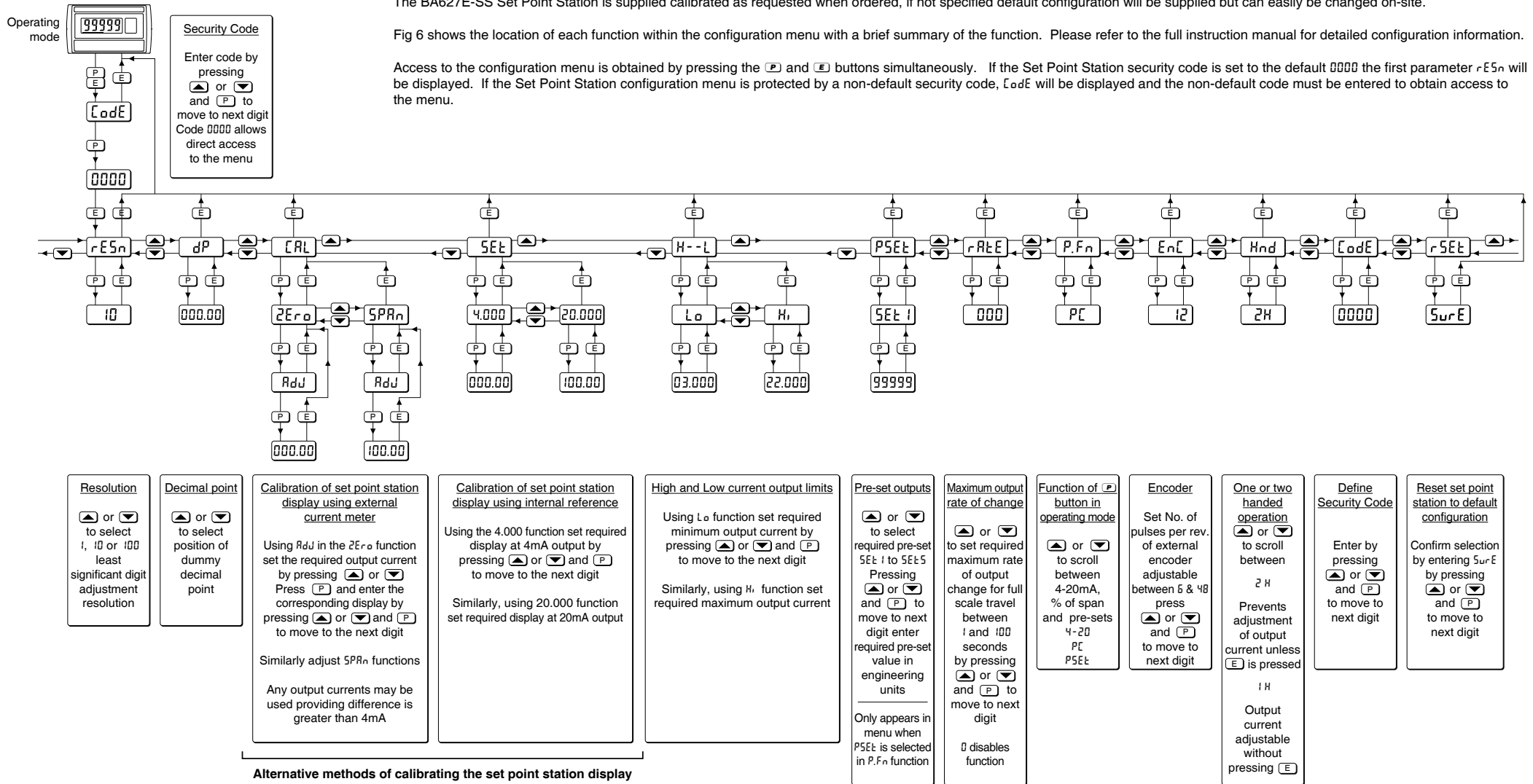
BEKA associates Ltd. Old Charlton Rd, Hitchin, Hertfordshire, SG5 2DA, UK Tel: +44(0)1462 438301 Fax: +44(0)1462 453971 e-mail: sales@beka.co.uk web: www.beka.co.uk

4. CONFIGURATION

The BA627E-SS Set Point Station is supplied calibrated as requested when ordered, if not specified default configuration will be supplied but can easily be changed on-site.

Fig 6 shows the location of each function within the configuration menu with a brief summary of the function. Please refer to the full instruction manual for detailed configuration information.

Access to the configuration menu is obtained by pressing the **[P]** and **[E]** buttons simultaneously. If the Set Point Station security code is set to the default 0000 the first parameter **rE5n** will be displayed. If the Set Point Station configuration menu is protected by a non-default security code, **codE** will be displayed and the non-default code must be entered to obtain access to the menu.



Alternative methods of calibrating the set point station display



Manuals, certificates and data-sheets can be downloaded from <http://www.beka.co.uk/ba627e-ss>

Fig 6 Configuration menu

BEKA associates

Old Charlton Rd, Hitchin, Hertfordshire, SG5 2DA, UK
Tel: +44(0)1462 438301 Fax: +44(0)1462 453971
e-mail: sales@beka.co.uk web: www.beka.co.uk