

New model available
see BA627E



Shown with optional separately powered backlight

The **BA505C** is a panel mounting manual set point station that enables the current flowing in a 4/20mA loop to be manually adjusted from within a process area. The instrument is loop powered and contains a 3½ digit display which may be calibrated to show the 4/20mA current in engineering units.

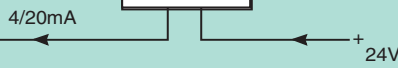
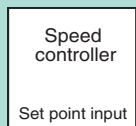
Main application of the BA505C is the adjustment of plant parameters from within a process area. Speed controller set points such as a vessel mixer, actuator position or any parameter represented by a 4/20mA signal can be adjusted by the set point station. The BA505C incorporates a ten turn high resolution potentiometer fitted with a friction damper to minimise the risk of accidental adjustment. The magnitude of the variable being adjusted is shown on a 3½ digit display which may be calibrated in engineering units. An operator can therefore accurately set the process parameter to the required value without the need for any other instruments.

The **front panel** is a robust Noryl moulding sealed with a scratch resistant polyester membrane, and aaptive neoprene gasket provides an IP65 seal between the enclosure and the panel. To simplify installation and maintenance, the BA505C has a removable rear terminal block which allows panel wiring to be completed before the set point station is installed. A blank scale card is fitted to all instruments, this can be typeset during manufacture, or marked on site to show the units of adjustment.

Reliability is ensured by an ISO9001 approved quality control system supported by a three year guarantee. Set point stations are protected from reverse connection and overrange input current, and incorporate radio frequency filtering to comply with the European EMC Directive.

For applications in flammable atmospheres the BA405C has been certified intrinsically safe and may be installed in most hazardous areas.

BA505C
manual set point station



BA505C

2-wire 4/20mA manual set point station

General purpose

- ◆ Loop powered
- ◆ 3½ digit display
- ◆ Optional
Loop powered
backlight
Separately powered
backlight
- ◆ IP66 front
- ◆ 96 x 48 DIN
enclosure.
- ◆ 3 year guarantee

BEKA

associates

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SPECIFICATION

Output

Current	Typ 3.5 to 21mA
Resistance	Greater than 1M

Power Supply

Voltage	6.1 to 30V 10 to 30V with optional loop powered backlight.
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Accuracy

Control resolution	0.05% of maximum output
Temperature effect	Less than 2µA/°C

Display

Type	3½ digit
Zero	Adjustable between -1000 & 1000
Span	Adjustable between 000 & 1999
Polarity	Automatic minus sign
Decimal point	1 of 3 positions or absent selected by internal plug-in link.

Environmental

Operating temp	-20 to 60°C
Storage temp	-40 to 85°C
Humidity	To 95% at 40°C non-condensing
Enclosure	
Front	IP65
Rear	IP20

EMC

	In accordance with EU Directive 89/336/EEC, full report available.
Immunity	Less than 1% of span error for 10V/m field strength between 27MHz & 1 GHz.
Emissions	Electromagnetically benign

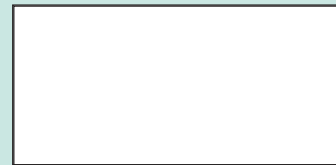
Mechanical

Terminals	Screw clamp for 0.5 to 1.5mm ² cables in removable terminal block.
Weight	0.4kg

Accessories

Separately powered backlight	LED backlight
Vin	14 to 30V dc, may be dimmed by reducing voltage below 14V.
Iin	40mA typical
Loop powered backlight	Green, powered from 4/20mA current.
Typeset scale card	Blank scale card fitted to each instrument can be supplied typeset with units of measurement.
Tag number	Thermally printed tag number on the rear of the instrument.

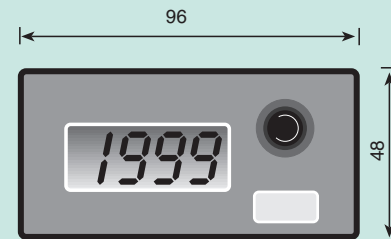
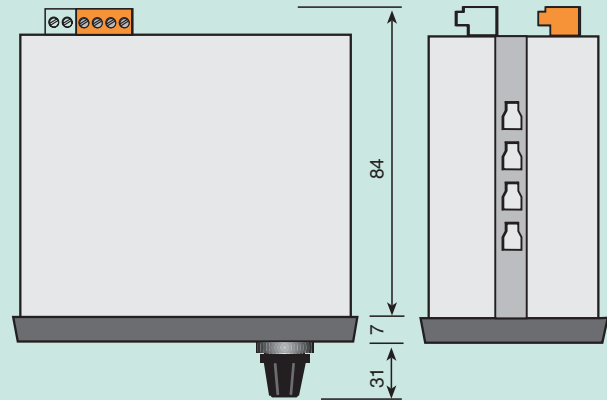
DIMENSIONS (mm)



Recommended panel cut-out

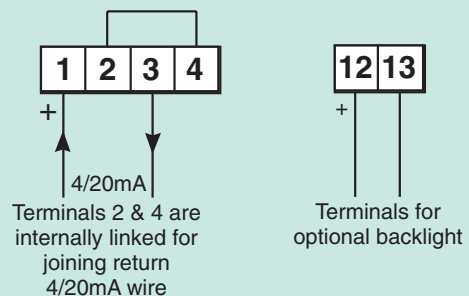
DIN 43 700
92.0 +0.8/-0.0 x 45 +0.6 -0.0

To achieve an IP65 seal between the instrument and the panel
90 +0.5/-0.0 x 43.5 +0.5/-0.0



Terminals for optional backlight are shown in outline

TERMINAL CONNECTIONS



HOW TO ORDER

Model number	Please specify BA505C Display at 4mA XXXX Display at 20mA XXXX	<i>Include position of decimal point and sign if negative</i>
Accessories Display backlight	Please specify if required Separately powered backlight or Loop powered backlight	
Scale card	Legend	
Tag strip	Legend	