

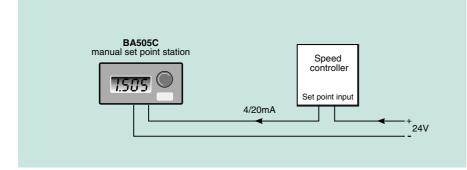
The BA505C is a panel mounting manual set point station that enables the current flowing in a 4/20mA loop to be manually adjusted from within a process area. The instrument is loop powered and contains a $3\frac{1}{2}$ digit display which may be calibrated to show the 4/20mA current in engineering units.

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 an 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 3¹/₂ 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 a captive 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

2-wire 4/20mA manual set point station

General purpose

- Loop powered
- Optional: Loop powered backlight Separately powered backlight
- IP65 front
- 96 x 48mm DIN enclosure
- 🔷 3 Year guarantee



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SPECIFICATION

Output

Current Resistance

Power Supply Voltage

Accuracy

Control resolution Temperature effect

Display

Туре Zero Span Polarity Decimal point

Environmental

Operating temp Storage temp Humidity Enclosure Front Rear

EMC

Immunity

Emissions

Mechanical

Terminals

Weight

Accessories

Separately powered backlight LED backlight Vin Iin 40mA typical Loop powered backlight current Typeset scale card instrument can be supplied ment. Thermally printed tag number on Tag number

Typ 3.5 to 21mA Greater than 1M

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

0.05% of maximum output Less than 2µA/°C

3¹/2 digit Adjustable between -1000 & 1000 Adjustable between 000 & 1999 Automatic minus sign 1 of 3 positions or absent selected by internal plug-in link.

-20 to +60°C -40 to +85°C To 95% at 40°C non-condensing

IP65 IP20

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

Electromagnetically benign

Screw clamp for 0.5 to 1.5mm² cables in removable terminal block. 0.4kg

14 to 30V dc, may be dimmed by reducing voltage below 14V. Green, powered from 4/20mA

Blank scale card fitted to each typeset with units of measure-

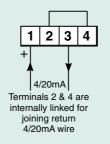
the rear of the instrument.

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 $90 + 0.5/-0.0 \times 43.5 + 0.5/-0.0$ 00<mark>0000</mark> Л 8 ਰ ਹੈ



Terminals for optional backlight are shown in outline

TERMINAL CONNECTIONS





Model number

Please specify BA505C

Display at 4mA XXXX Include position of decimal point and Display at 20mA XXXX sign if negative

12 13

Terminals for optional backlight

Please specify if required Separately powered backlight or Loop powered backlight Legend

Legend

Accessories **Display backlight**

Scale card Tag strip

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DIMENSIONS (mm)