

The BA405C is an intrinsically safe panel mounting manual set point station that enables the current flowing in a 4/20mA loop to be manually adjusted from within a hazardous 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.

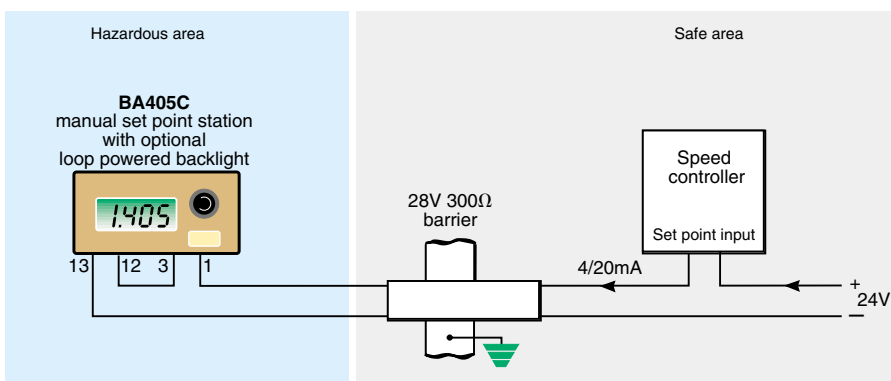
Main application of the BA405C is the adjustment of plant parameters from within a hazardous process area. Speed controller set points such as a vessel mixer, actuator positions or any parameter represented by a 4/20mA signal can be adjusted from within the hazardous area. The BA405C incorporates a ten 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.

ATEX intrinsic safety certification confirms compliance with the requirements for Group II Category 1G equipment Ex ia IIC T5, allowing the BA405C to be installed in almost all gas hazardous areas throughout Europe. For use in the USA the BA405C has FM intrinsic safety and nonincendive approval.

Two display backlight options are available. The loop powered backlight produces green background illumination enabling the display to be read at night and in poor lighting conditions. No additional power supply, IS interface or field wiring are required, but the minimum operating voltage is increased. Alternatively, the separately powered backlight has a bright orange output which enhances daylight viewing, but an additional IS interface and field wiring are required.

The front panel is a robust Noryl moulding sealed with a scratch resistant polyester membrane. A neoprene gasket provides an IP65 seal between the enclosure and the panel. To simplify installation and maintenance, the BA405C has a removable blue 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.



BA405C

2-wire 4/20mA manual set point station

Intrinsically safe for use in all gas hazardous areas

- ◆ Loop powered
- ◆ Intrinsically safe ATEX and FM certification
- ◆ 3½ digit display
- ◆ Optional Loop powered backlight Separately powered backlight
- ◆ IP65 front
- ◆ 96 x 48 DIN enclosure
- ◆ 3 year guarantee



BEKA associates

BEKA associates Ltd. Old Charlton Rd. Hitchin, Hertfordshire, SG5 2DA, U.K. Tel. (01462) 438301 Fax (01462) 453971 e-mail sales@beka.co.uk www.beka.co.uk

