



The **BA327C** is an intrinsically safe 4<sup>1</sup>/<sub>2</sub> digit panel mounting indicator which displays the current flowing in a 4/20mA loop in meaningful engineering units. The instrument is loop powered, but only introduces a 1V drop allowing it to be installed in series with almost any 4/20mA loop.

**Main application** of the BA327C is to display a measured variable or control signal in a hazardous process area. The zero and span of the display are independently adjustable so that the indicator can easily be calibrated on-site to display any linear or square law signal represented by a 4/20mA current, such as temperature, flow or pressure. An optional 16 point lineariser enables the BA327C to display non linear variables in linear engineering units, and two optional alarms can control hazardous or safe area loads.

**Control and calibration** of the indicator is performed via the front panel tactile push-buttons which 'click' when operated. Using the push-buttons the operator can temporarily select the measured variable as a percentage of span, the input current in mA and the calibration at 4 & 20mA. The calibration functions are contained in easy to understand menus which are protected by a four digit user selectable security code.

**Two 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 indicator voltage drop 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.

**Optional alarms** provide two galvanically isolated solid state outputs which may be independently programmed as high or low trips with normally open or closed contacts.

**International intrinsic safety certification** allows the BA327C to be installed throughout the world. The 4/20mA input terminals comply with the requirements for *simple apparatus* enabling the indicator to be connected in series with most certified intrinsically safe circuits which, together with the low voltage drop, make the instrument very easy to apply. ATEX and FM approvals permit installation in Europe and the USA and the IECEx certification allows installation in a growing number of countries including Australia and New Zealand. Selection of Zener barriers and galvanic isolators is described in Application Guide AG300.

**The front panel** is a robust, easy to clean Noryl moulding sealed with a non-reflective, scratch resistant polyester membrane. A captive neoprene gasket provides an IP65 seal between the enclosure and the panel.

**Reliability is ensured** by an ISO9001 approved quality control system backed by a three year guarantee. The indicator is protected from reverse connection and overrange input current, and incorporates extensive radio frequency filtering to comply with the European EMC Directive.

# BA327C

## 2-wire 4/20mA 4<sup>1</sup>/<sub>2</sub> digit indicator

*Intrinsically safe for use  
in all gas hazardous areas*

- ◆ **Loop powered only 1V drop**
- ◆ **Intrinsically safe ATEX, FM & IECEx certification**
- ◆ **±19999 display 10mm high**
- ◆ **Optional:**
  - Loop powered backlight**
  - Separately powered backlight**
  - Alarms**
  - Lineariser**
  - Tare function**
- ◆ **IP65 front**
- ◆ **96 x 48mm DIN enclosure**
- ◆ **3 year guarantee**



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