

The BA327E loop powered 4/20mA indicator is a fourth generation instrument that is electrically and mechanically compatible with the earlier industry standard BA327C, but has a larger full 5 digit display plus a 31 segment analogue bargraph providing maximum visibility from a 96 x 48mm instrument. The new model has guaranteed performance between -40 & +70°C, dust certification and an even shorter enclosure depth than its predecessor. The scale card can easily be marked to show the units of measurement and be installed on-site without dismantling the indicator enclosure or removing it from the panel. If the units of measurement are not specified when the indicator is ordered, a blank scale card will be fitted.

The main application of the BA327E is to display a measured variable in meaningful engineering units within a hazardous area. The zero and span of the display are independently adjustable allowing the indicator to be calibrated to display any linear variable represented by the 4/20mA signal. A root extractor and an adjustable sixteen segment lineariser enables the indicator to display flow and non-linear variables such as tank level in linear engineering units. For weighing applications a tare function is included.

**The bold 11mm** high 5 digit display and 31 segment bargraph provide maximum contrast and have a very wide viewing angle, allowing the BA327E indicator to be easily read in most lighting conditions over a wide temperature range. An optional factory fitted backlight is available for applications in poorly illuminated areas. The five digits, with four decimal points and a negative sign, may be configured to display any variable between –99999 and 99999.

**IP66 front panel protection** and a neoprene gasket to seal the joint between the indicator and the panel make the instrument suitable for use in areas that will be cleaned with a hose. To simplify installation and maintenance, the indicator has a removable terminal block allowing panel wiring to be completed before the BA327E indicator is installed.

International intrinsic safety certification permits the BA327E to be installed throughout the world. The 4/20mA input terminals comply with the requirements for *simple apparatus* which, together with the low voltage drop, allow the indicator to be connected in series with most intrinsically safe 4/20mA loops. The BA327E may also be installed in dust hazardous areas. All input safety parameters are the same or greater than those for the preceding BA327C, thus allowing the BA327E to safely replace the earlier model.

A backlight which may be loop or separately powered is available as a factory fitted option. It provides green background illumination allowing the display to be read at night or in poorly illuminated areas. When powered from the 4/20mA loop no additional intrinsically safe interface or wiring is required and the indicator input remain compliant with the requirements for *simple apparatus*. Powering from a separate supply produces a brighter backlight but requires an additional intrinsically safe interface and field wiring.

**Optional dual alarm outputs** which can switch hazardous or safe area loads, such as sounders, beacons or solenoid valves, are available as a factory fitted option. The two galvanically isolated solid state alarm outputs may be independently conditioned as high or low alarms with normally open or closed outputs. Annunciators on the display show the status of both alarm outputs.

**Reliability is ensured** by component conformal coating, protection from incorrect connection and radio frequency interference. The indicator has been subjected to vibration testing and is supported by a three year guarantee.

**Other models** in this range include the BA307E which has a similar specification with four larger 15mm high digits without a bargraph.

# **BA327E** 2-wire 4/20mA 5 digit indicator

Intrinsically safe for use in all gas & dust hazardous areas

- Loop powered only 1.2V drop
- 5 digit 11mm high display & 31 segment bargraph.
- Intrinsically safe ATEX, FM, cFM & IECEx
- Optional backlight & alarms
- Easy on-site scale card installation
- IP66 front
- Root extractor and 16 segment lineariser
- 96 x 48mm DIN enclosure
- 3 year guarantee



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Input

Display

Type

Span

Zero

Polarity Zero blanking

Direction Reading rate

Bargraph Overange

Push buttons

▲ 'P

'Ε'

Accuracy at 20ºC

Zero

Spar

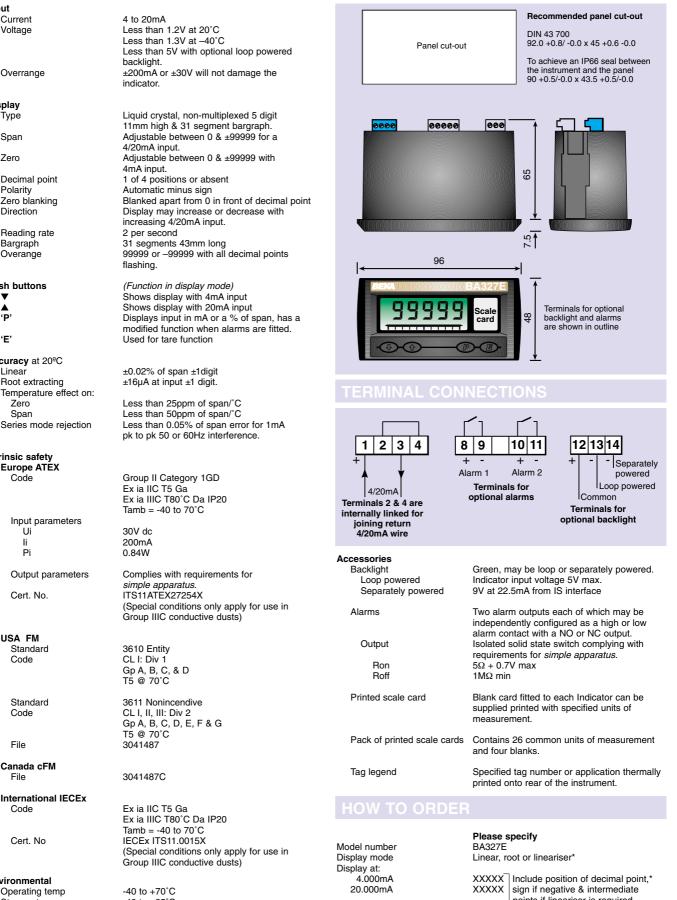
Linear Root extracting

Decimal point

Current

Voltage

Overrange



Accessories

Dual alarms

Scale card

Tag

Display backlight

-40 to +85°C to 95% at 40°C noncondensing Report available Front IP66, rear IP20 Complies with 2004/108/EC

Screw clamp for 0.5 to 1.5mm<sup>2</sup> cable, removable terminal blocks. 0.2kg

points if lineariser is required.

Please specify if required Backlight Alarms Legend required Legend required

\* Will be set to display 0.0 at 4mA and 1000.0 at 20mA with a linear display if calibration information is not supplied. Can easily be recalibrated on-site.

Europe ATEX

Intrinsic safety

Input parameters Ui li Ρ

Output parameters

Cert. No.

USA FM Standard Code

> Standard Code

File

Canada cFM File

International IECEx Code

Cert. No

## Environmental

Operating temp Storage temp Humidity Vibration Enclosure EMC

### Mechanical Terminals

Weight