

The BA308E loop powered 4/20mA indicator is a fourth generation instrument that is electrically and mechanically compatible with the earlier BA308C, but has a much larger full 4 digit display providing maximum visibility from a 144 x

72mm 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 BA308E 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.

A bold 34mm high 4 digit display provides maximum contrast and has a very wide viewing angle, allowing the BA308E 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 four digits, with three decimal points and a negative sign, may be configured to display any variable between –9999 and 9999.

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 BA308E indicator is installed.

International intrinsic safety certification permits the BA308E 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 BA308E may also be installed in dust hazardous areas. All input safety parameters are the same or greater than those for the preceding BA308C, thus allowing the BA308E 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 remains 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 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 BA328E which has a similar specification with five 29mm high digits and a 31 segment bargraph.

BA308E 2-wire 4/20mA 4 digit indicator

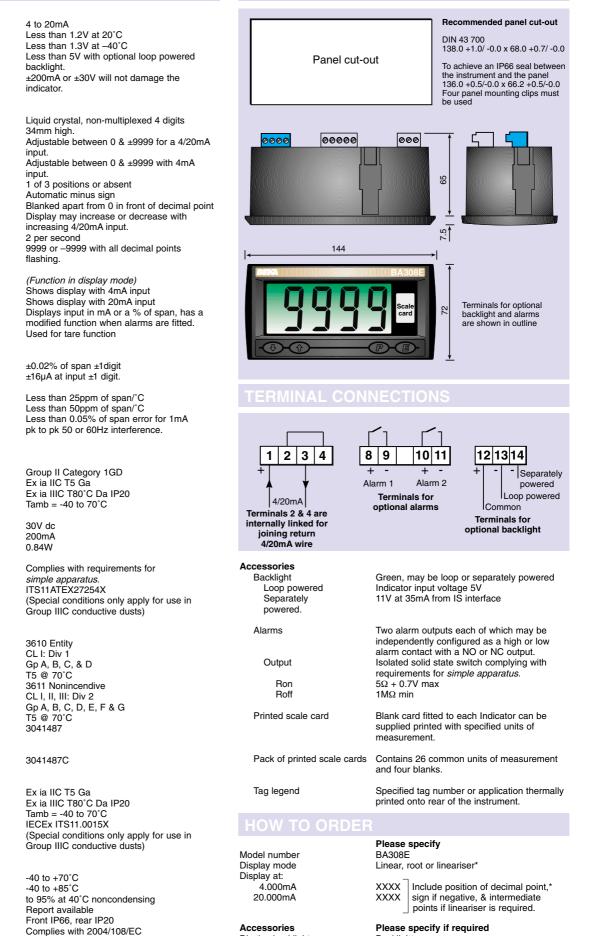
Intrinsically safe for use in all gas & dust hazardous areas

- Loop powered only 1.2V drop
- 4 digit 34mm high display
- Intrinsically safe ATEX, FM, cFM & IECEx
- Optional backlight & alarms
- Easy on-site scale card installation
- IP66 front
- Root extractor and 16 segment lineariser
- 144 x 72mm DIN enclosure

3 year guarantee



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Input

Overrange

Current

Voltage

Display

Type

Span

Zero

Decimal point Polarity Zero blanking Direction

Reading rate Overange

Push buttons

Ϋ́Ρ

'Ε'

Accuracy at 20°C Linear Root extracting Temperature effect on: Zero Span Series mode rejection

Intrinsic safety Europe ATEX Code

Input parameters Ui li Р

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

Complies with 2004/108/EC

Screw clamp for 0.5 to 1.5mm² cable, removable termial blocks. 0.35kg

Display backlight Dual alarms Scale card Tag

Backlight Alarms Leaend required Leaend required

* Will be set to display 0.0 at 4mA and 100.0 at 20mA with a linear display if calibration information is not supplied. Can easily be recalibrated on-site.