

The BA324G loop powered 4/20mA indicator is a new field mounting instrument that supersedes the well established BA324C. It is electrically and mechanically compatible with the earlier model but has a much larger full 5 digit display and guaranteed performance between -40 and +70°C. Like it's predecessor, the BA324G is housed in a robust IP66 enclosure which may be surface or pipe mounting.

Main application of the BA324G 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 enable the indicator to display flow and variables such as tank level in linear engineering units. For weighing applications a tare function is included.

A large 29mm high 5 digit display and 31 segment bargraph provided maximum contrast and have a very wide viewing angle, allowing the BA324G indicator to be easily read in most lighting conditions over a wide temperature range. An optional factory fitted backlight is available for installations 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 protection is provided by the robust GRP enclosure which has stainless steel fittings, silicone gaskets and an 8mm thick armoured glass window. Ingress and impact protection have been independently assessed by Intertek. An optional back-box terminal assembly including a continuity diode in the 4/20mA loop is available for users wishing to terminate field wiring before the indicator assembly is installed.

The scale card which shows units of measurement and tag information slides into an internal slot and can easily be changed on-site. New instruments are supplied with a printed scale card showing customer specified information, if this is not supplied a blank card is fitted which can easily be marked on-site.

IECEx and ATEX intrinsic safety gas and dust certification permits the BA324G 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. All BA324G indicators may be installed in gas or dust hazardous areas. Input safety parameters are the same or greater than those for the preceding BA324C, thus allowing the BA324G 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 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 alarms.

Reliability is ensured by protection from incorrect connection and radio frequency interference. The indicator has been subjected to extensive vibration and thermal testing and is supported by a three year guarantee.

Other field mounting models in this range include the BA304G which has a similar specification with a four digit 32mm high display.

Controlin BA324G 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 29mm high display & 31 segment bargraph.
- Intrinsically safe ATEX & IECEx certification.
- Root extractor and 16 segment lineariser.
- IP66 GRP enclosure
- Easy scale card installation on-site.
- Optional backlight & alarms.
- 3 year guarantee

www.beka.co.uk/ba324g



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SPECIFICATION

4 to 20mA

29mm high.

4mA input.

flashing.

30V dc

200mA

0.84W

in Zone 0)

30V dc

200mA 0.84W

in Zone 0)

-40 to +70°C

-40 to +85°C

Ex ia IIIC T80°C Da IP66 Ta = -40 to +70°C

Comply with requirements for

simple apparatus. IECEx ITS 11.0014X

Input Current

Display

Туре

Span

Zero

Polarity

Direction Reading rate

Bargraph

Overange

Push buttons

P

E

Accuracy at 20°C

Root extracting

Temperature effect on:

Series mode rejection

Input parameters

Output parameters

International IECEx

Input parameters Ui

Output parameters

Linear

Zero

Span

Intrinsic safety

Code

υ

li

Р

Cert. No

Code

li

Pi

Cert. No.

Environmental

Humidity

Operating temp

Storage temp

Europe ATEX

Decimal point

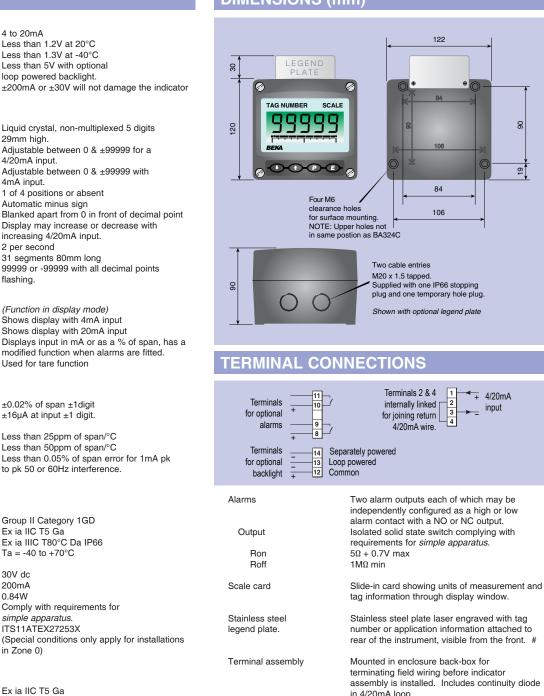
Zero blanking

Voltage

Overrange

DIMENSIONS (mm)

Controlin



Pipe mounting kit

See accessory datasheet for details

HOW TO ORDER

Model number Display mode Display at: 4.000mA 20.000mA

Accessories **Display backlight** Dual alarms Scale card marking Units Tag Stainless legend plate Back-box terminal assembly Pipe mounting kit

Please specify BA324G Linear. root or lineariser*

in 4/20mA loop.

BA393G #

Include position of decimal point & XXXXX sign if negative, plus intermediate XXXXX points if linearisation is required.

Please specify if required Backlight Alarms

Legend required Legend required Legend required Terminal assembly BA393G

* Will be set to display 0.00 at 4mA and 100.00 at 20mA with a linear display if calibration information is not supplied. Can easily be recalibrated on-site.

Enclosure EMC

Mechanical

Terminals Weight

Accessories Backlight

Loop powered Separately powered GRP IP66 Complies with EMC Directive 2004/108/EC

to 95% at 40°C noncondensing

(Special conditions only apply for installations

Blue with screw clamp for 0.5 to 1.5mm² cable 1.1kg

Green, may be loop or separately powered Indicator input voltage 5V 11V at 35mA from IS interface