

The BA338E is a third generation intrinsically safe rate totaliser that is compatible with the earlier BA338C, but has a much larger display, a lineariser and an isolated synchronous pulse output. The totaliser is easy to use and can be configured on-site to operate with flowmeters having a magnetic pick-off, switch contact, proximity detector, open collector or a voltage pulse output. A slide-in scale card simplifies identification and international intrinsic safety certification permits worldwide installation.

Main application of the BA338E is to process the pulse output from a hazardous area flowmeter such as a turbine meter and simultaneously display the rate and total flow in engineering units within the hazardous area. The BA338E will compensate for flowmeter nonlinearity using up to sixteen flowmeter K-factors which can be entered on-site.

The large display has high contrast and a very wide viewing angle enabling the rate totaliser to be read in most lighting conditions over a wide temperature range. Rate of flow may be displayed in almost any units of measurement per second, minute or hour. Total flow may be shown in the same or in different units and the total display may be reset using the front panel push buttons or an external contact closure.

IP66 front panel protection with a neoprene gasket to seal the joint between the totaliser and the instrument panel allow the BA338E to be installed in areas that will be washed down. To simplify installation and maintenance, the totaliser has removable terminal blocks allowing panel wiring to be completed before the instrument is installed.

Open collector pulse output will synchronously retransmit the rate totaliser input pulse, or a pulse when the least significant digit of the total display is incremented.

International intrinsic safety certification allows the BA338E rate totaliser to be installed worldwide. When configured to operate with a flowmeter having a voltage or magnetic pick-up output, the input terminals comply with the requirements for simple apparatus reducing system design and documentation. All input safety parameters are the same or greater than those for the preceding BA338C, thus allowing the BA338E to safely replace the earlier model.

Display backlighting, which is internally powered from the totaliser, is available as a factory fitted option. It provides green background illumination enhancing daylight viewing and allowing the display to be easily read at night or when the totaliser is installed in a poorly illuminated area.

An optional isolated 4/20mA output may be configured to produce an analogue output proportional to any part of the rate or total display. The output is galvanically isolated and has been certified as a separate intrinsically safe circuit complying with the requirements for *simple apparatus* thus simplifying connection to other instruments.

Optional dual alarms can switch hazardous area loads such as a sounder or solenoid valve, or safe area loads via a Zener barrier or isolator. The two galvanically isolated, solid state voltage free outputs may be independently conditioned as rate or total alarms with normally open or closed outputs. Annunciators on the BA338E display show the status of both alarm outputs.

When panel space is limited the BA337E provides similar features in a smaller 94 x 48mm enclosure.

BA338E

One input rate totaliser

Intrinsically safe for use in all gas hazardous areas

- Configurable input: magnetic pick-off, switch contact, proximity detector, open collector or voltage pulse.
- Separate rate and total displays.
- Intrinsically safe ATEX and IECEx.
- 144 x 72mm DIN enclosure with IP66 front protection.
- Lineariser
- Isolated pulse output
 - Optional: Backlight
 Dual alarms
 4/20mA output
- 3 year guarantee

www.beka.co.uk/ba338e



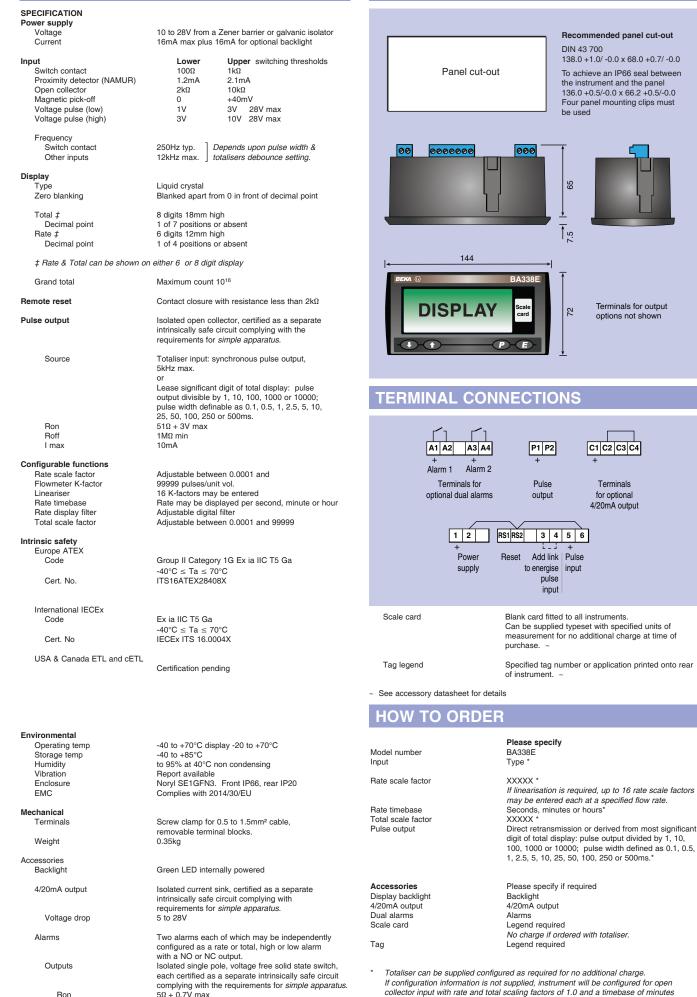




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SPECIFICATION

DIMENSIONS (mm)



 $1M\Omega$ min

Roff

1

with direct pulse retransmission. Can easily be reconfigured on-site