

The BA358E loop powered 4/20mA rate totaliser is a third generation instrument that is electrically and mechanically compatible with the earlier BA358C, but has a much larger display with a wider viewing angle providing maximum visibility from a 144 x 72mm instrument. The new model has an extended operating temperature range, 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 can be installed on-site without dismantling the indicator enclosure or removing it from the panel.

The main application of the BA358E is to integrate the 4/20mA output from a hazardous area flow transmitter and display the rate and total flow in engineering units within the hazardous area. A selectable square root extractor enables the output from differential flowmeters to be displayed in linear engineering units and a sixteen segment fully adjustable lineariser provides compensation for nonlinear flowmeters. When fitted with optional alarms the BA358E can detect high and low rates of flow and may be used for simple batching applications.

The large display provides maximum contrast and has a very wide viewing angle, allowing the BA358E itotaliser 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 18mm high eight digit total display may be configured to show total flow in any units of measurement. The display may be reset to zero using a front panel push button or an external contact closure. The rate display may be calibrated to show flow in the same or in different engineering units to those used for the total display.

**IP66 front panel protection** and a neoprene gasket sealing the joint between the totaliser and the panel making the instrument suitable for use 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 BA358E is installed.

International intrinsic safety certification permits the BA358E 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 totaliser to be connected in series with most intrinsically safe 4/20mA loops. The BA358E may also be installed in dust hazardous areas. All input safety parameters are the same or greater than those for the preceding BA358C, thus allowing the BA358E to safely replace the earlier model.

A backlight that 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 alarms** 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 total or rate 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 totaliser has been subjected to vibration testing and is supported by a three year guarantee.

**For field mounting applications** the BA354E has a similar specification as the BA358E, but is housed in a robust IP66 GRP enclosure suitable for external mounting. For safe area applications the BA554E and BA558E are equivalent uncertified field and panel mounting models.

## BA358E 2-wire 4/20mA rate totaliser

Intrinsically safe for use in all gas & dust hazardous areas

- Loop powered only 1.2V drop.
- Total display 8 digit 18mm high.
   Rate display
   5 digit 12mm high.
- Intrinsically safe ATEX, FM, cFM & IECEx.
- Uni-directional & bi-directional operation.
- Root extractor and 16 segment lineariser.
- Optional backlight & alarms.
- Easy on-site scale card installation.
- IP66 front
- 144 x 72mm
  DIN enclosure.
- 3 year guarantee

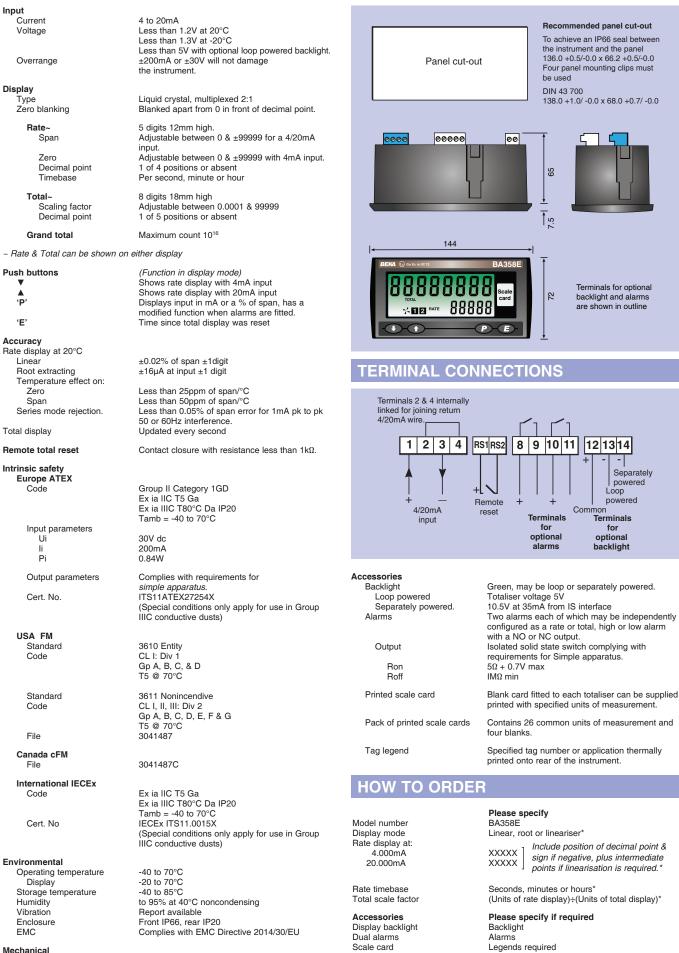
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## **SPECIFICATION**

## DIMENSIONS (mm)



Terminals

Weight

Scale card Tag

Screw clamp for 0.5 to 1.5mm<sup>2</sup> cable,

removable.

0.35kg

If calibration information is not supplied totaliser will be set to display a rate of 0.00 at 4mA and 100.00 at 20mA with a linear display, a timebase of seconds and a total scale factor of 1. Can easily be recalibrated on-site.

Legend required