



The **BA337NE** rate totaliser has a rugged stainless steel enclosure allowing it to be safely installed in an Ex n or Ex tc panel enclosure located in Zones 2 or 22 without the need for Zener barriers or galvanic isolators. The rate totaliser is easy to use and can be configured on-site to operate with flowmeters having a wide variety of pulse outputs. A slide-in scale card simplifies identification.

The main application of the BA337NE 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 in a Zone 2 or 22 hazardous area. The BA337NE can compensate for flowmeter nonlinearity using up to sixteen flowmeter K-factors which can be entered on-site.

The display has high contrast and a 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.

**International Ex nA certification** permits the BA337NE rate totaliser to be installed worldwide. When mounted in a panel enclosure complying with Ex n (non sparking) impact and ingress requirements, the enclosure and rate totaliser may be installed in a Zone 2 hazardous area without barriers or isolators. Certified Ex n or Ex e enclosures are often used. Similarly, the BA337NE can be mounted in an Ex tc enclosure located in Zone 22. BEKA Application Guide AG310 provides Ex nA installation recommendations.

**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 installed in a poorly illuminated area.

One of the following three optional outputs may be factory fitted to the BA337NE rate totaliser.

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

**Optional isolated 4/20mA output** may be configured to produce an analogue output proportional to any part of the rate or total display.

**Optional dual alarms** can switch hazardous or safe area loads such as a sounder or solenoid valve. 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 BA337NE display show the status of both alarm outputs.

**Intrinsically safety models** and instruments with larger displays are available within the range. The BA337E-SS has the same features as the BA337NE including a rugged stainless steel enclosure, but is certified intrinsically safe Ex ia.

The intrinsically safe BA337E offers similar features in a Noryl 96 x 48mm enclosure and the BA338E has similar features in a 144 x 72mm Noryl enclosure with a larger display.

# BA337NE

## Rugged Ex nA & Ex tc one input rate totaliser

*Can be installed in Zones 2 or 22 without Zener barriers or galvanic isolators.*

- ◆ **Configurable input:** magnetic pick-off, switch contact, proximity detector, open collector or voltage pulse.
- ◆ **Separate rate and total displays.**
- ◆ **Ex nA & Ex tc certified**
- ◆ **105 x 60mm rugged 316 stainless steel enclosure with IP66 front protection.**
- ◆ **Optional:** Backlight dual alarms or 4/20mA output or pulse output
- ◆ **3 year guarantee**



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