

The BA554D is a field mounting, looppowered rate totaliser with separate rate and total displays. When connected in series with a 4/20mA flow transmitter, the instrument will display the rate of flow in engineering units and the total flow in the same or different units. The BA554D only introduces a 1V drop which allows it to be installed in series with almost any 4/20mA loop without the need for an additional power supply. If the 4/20mA loop is disconnected, the displayed total and all programme parameters will be stored in permanent memory, and will be automatically recovered when the 4/20mA current is restored.

Main application of the BA554D is to integrate the 4/20mA output from a flow transmitter and to display the total flow in engineering units. The flow rate is shown on a smaller display, although the function of the two displays may be reversed. When used with a differential flowmeter, a root extracting function may be selected to linearise the input so that both the flow rate and the total flow are displayed in linear engineering units. When fitted with optional alarms, the BA554D can detect low or high flow rates and can perform simple flow batching operations.

Control and programming of the BA554D is performed via four pushbuttons which are protected from tampering behind a sealed cover. For applications requiring frequent adjustment, the instrument can be supplied with an external membrane keypad. All the programme functions are contained in easy to understand menus which may be protected by a user definable security code. To simplify calibration the total scaling factor employs a floating decimal point.

An internal calibrator simulates 4 and 20mA input currents so that the instrument may be quickly calibrated without the need for test equipment or disconnection from the 4/20mA loop.

Optional alarms provide two galvanically isolated solid state outputs which may be independently programmed for high or low operation on either the rate or total displays.

Backlighting is available as an option to improve readability when the BA554D is installed in a poorly illuminated area. High efficiency amber LEDs provide an even glow to enhance display contrast.

The enclosure, which is moulded in glass reinforced polyester (GRP), has stainless steel fittings, silicone gaskets and an armoured glass window. Its robust construction provides IP66 protection. A separate terminal compartment allows the BA554D to be installed and terminated without exposing the display electronics. To further simplify field wiring and subsequent inspection, the terminal cable entries and clamping screws are forward facing. Additional terminals are provided which may be used to link the return 4/20mA conductor and cable screens.

BA554D

2-wire 4/20mA rate totaliser

General purpose for use with 4/20mA flowmeters

- Loop powered only 1V drop
- Separate rate and total displays
- IP66 enclosure for surface or pipe mounting
- Root extractor
- Optional:

Alarms Backlight External keypad

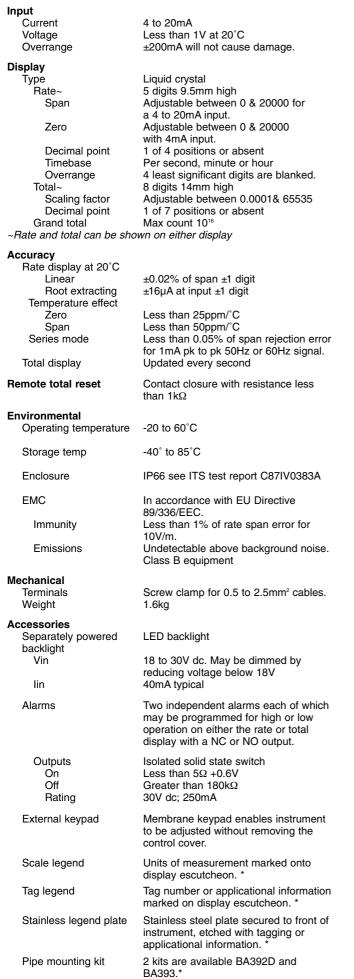
🕈 3 year guarantee

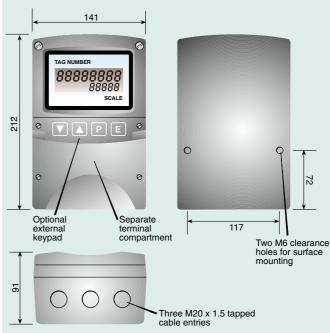


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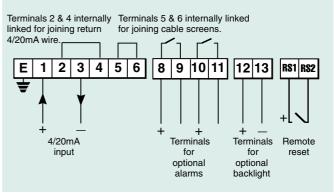
SPECIFICATION

DIMENSIONS (mm)





TERMINAL CONNECTIONS



HOW TO ORDER

Model number Rate display at 4mA Rate display at 20mA Rate timebase Total scale factor

Accessories Display backlight Alarms External keypad Escutcheon marking Scale Tag Stainless legend plate Pipe mounting kit

please specify

BA554D XXXXX Include position XXXXX of decimal point # Seconds, minutes or hours (Units of rate display)÷(Units of total display)#

please specify Separately powered backlight Alarms External keypad

Scale legend required Tag legend required Legend required BA392D or BA393

If calibration information is not supplied, instrument will be set to display rate of 0.00 to 100.00 with a timebase of seconds and a total scale factor of 1