

The BA658C is a second-generation, general-purpose flow batch controller that supersedes the successful BA550P and BA550C. This controller is ideal for accurately dispensing liquids, solids or components and despite its sophisticated control functions, it remains very easy to use and configure.

The backlit display is readable in all lighting conditions. The user screen may be selected so that the operator is only presented with essential process information. Variables that may be displayed include dispensed quantity, batch setpoint, rate of dispensing and controller status. Most of the standard display screens also include a bargraph showing batch progress. A record of the total product dispensed is maintained as a grand total, together with a history of the last ten batches.

Up to nine setpoints may be pre-entered for selection by the operator when required. To simplify selection, each setpoint may be identified by a plain language name having up to sixteen alphanumeric characters. The controller can also be configured so that the operator can adjust an existing setpoint or enter a new value.

Single or two-stage control can be performed by the BA658C with a third output available to control an additional valve or pump, or even to provide three-stage control. To ensure maximum accuracy, overrun compensation may be selected to automatically minimise batching errors caused by actuator delays

Pulse and analogue 4/20mA signals are accepted by the batch controller. All inputs are galvanically isolated from the controller power supply and outputs so that earthed signals may be connected. Pulse inputs may be from switch contacts, a 2-wire proximity detector or a wide range of voltage sources. An easily adjustable sixteen point straight line lineariser will accurately correct almost any flowmeter non-linearity. The BA658C also incorporates a root-extractor so 4/20mA analogue inputs may be linear, or have a square law relationship with the rate of flow.

Separate total and rate scaling factors enable the dispensed quantity and the rate of dispensing to be displayed in the same or in different engineering units.

The three relay contact outputs may be individually configured as control or status outputs. If more are required, a factory fitted option provides three additional galvanically isolated solid state outputs.

Front panel push buttons allow the operator to start and stop the batch and to reset the controller at the end of each cycle. For applications where large or remote push buttons are required, control may be transferred to external switches with or without inhibiting the front panel controls.

Counting may be inhibited during a batch by closing an external contact. Thus product may be re-cycled whilst being heated, or the batching system may be purged without affecting the quantity dispensed.

Selectable automatic restart causes the BA658C batch controller to execute the batching operation a pre-set number of times. The delay between batches may be set between 1 second and 24 hours, thus enabling the controller to perform regular dosing and sampling operations.

Controller configuration is performed via the front panel push buttons or optional external switches. Carefully designed configuration menus lead the installer intuitively through the available functions. Configuration menus and user screens may be displayed in English, French or German.

A security link and an optional user definable four digit security code prevent accidental or unauthorised access to the configuration menus.

For field mounting applications the BA654D provides the same batching facilities as the BA658C but is housed in a robust IP66 GRP enclosure suitable for external mounting. A complementary range of field and panel mounting intrinsically safe models is also available for use in potentially flammable atmospheres.

BA658C Flow batch

controller

General purpose

- Easy to use
- High contrast display with backlight
- Pulse or 4/20mA current source input
- 3 or 6 outputs
- 9 selectable batch setpoints
- IP66 front panel
- 3 year guarantee



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		mable dispensed quantity before the dispensed quantity equals the batch	Outputs 4, 5 & 6	Additional 3 solid state dc outputs

BA458C & BA658C Case and terminal information

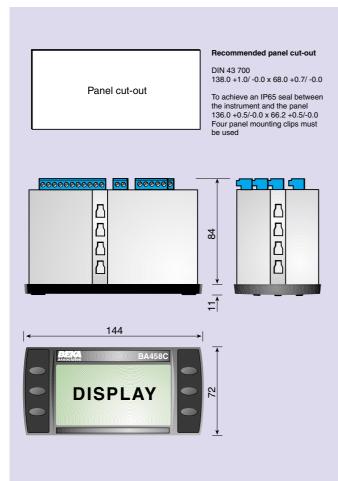
1

2

11

17

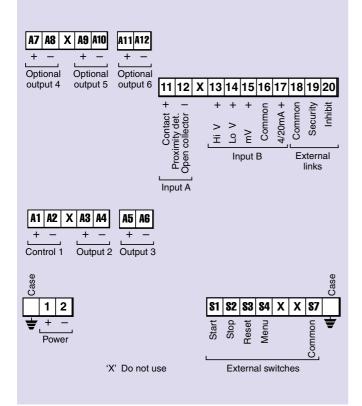
DIMENSIONS (mm)



For earthing the enclosure Case + Power supply _ + Proximity detector, switch Input only one input may be used 12 contact or open collector А _ High voltage 13 + Low voltage 14 + Input mV (Magnetic pick-off) В 15 Common for input 2 16 _ 4/20mA +

TERMINAL DESCRIPTIONS

18 19 20		Common for Configure se Inhibit input l	curity link
S1 S2 S3 S4 S5 S6 S7		Start Stop Reset Menu Do not use Do not use Common for	External Switches
Case		For earthing	the enclosure
A1 A2	+ -	Control 1	
A3 A4	+ -	Output 2	Outputs 2 and 3 may each be configured to have one of six
A5 A6	+ -	Output 3	functions
A7 A8	+ -	Output 4	
A9 A10	+ -	Output 5	If fitted optional outputs 4, 5 and 6 may each be configured to have one of six functions.
A11 A12	+ -	Output 6	



Note:

BA658C: Control 1, Output 2 and Output 3 are relay contacts which are not polarised