

3000 Series Batch Controller



Family features

- ▶ Dedicated range of Batch Controllers
- ▶ Six decade easily read display
- ▶ Microprocessor control
- ▶ Easy to set up and operate
- ▶ Scaling factor from 0.00001 to 999999
- ▶ Programmable decimal point
- ▶ Tamper protected programming
- ▶ Counts up to 4,000,000,000 pulses (Suitable for use with a small scaling factor e.g. for flow measurement applications)
- ▶ Facility for external Start, Stop and Reset switches
- ▶ Non volatile count (count is retained if power is lost)
- ▶ Two high current relay outputs (Batch and Pre-batch or Batch and Low-flow)
- ▶ Opto-isolated control inputs and outputs for greater noise immunity
- ▶ DIN standard panel mounting case (96mm x 96mm)
- ▶ Choice of supply 115V AC / 230V AC / 24V DC

Standard options

- ▶ High sensitivity input (12mV rms - suitable for use with flow measurement devices with low amplitude output signals)
- ▶ Low flow output (replaces pre-batch output)
- ▶ 0 – 5V speed control output (programmable acceleration and deceleration)
- ▶ 15V to 35V DC supply (suitable for use with vehicles operating on 24V batteries)

Special options

- ▶ Customised design or operation to suit unusual or dedicated applications – call our Sales Office to discuss your requirements

Typical applications

- ▶ Cut to length systems
- ▶ Liquid dispensing
- ▶ Liquid mixing (using two or more units interconnected for process control)


Technical specification

| | |
|---------------------------|--|
| Display | 6 decade 14.2mm, seven segment high brightness red LED |
| Decimal point | User programmable from front panel |
| Scaling | User programmable and retained in EEPROM (non volatile memory) |
| Signal inputs | |
| Sensitivity | User adjustable from 200mV to 10V (protected to 100V). (Factory fitted High Sensitivity option allows low input level of 12mV minimum). |
| Frequency | 10kHz maximum |
| Impedance | 15k ohm minimum. |
| Control inputs | External Start, Stop and Reset (require sink to 0V of 220 ohms maximum) |
| Outputs | |
| DC voltage | 10V to 12V DC unregulated @ 80mA maximum |
| Relay | Normally open and normally closed contacts rated at 8A @ 240V AC |
| Connections | Screw terminals on the rear panel. |
| Power requirements | Factory selected at 115V AC or 230V AC 50/60Hz. Loading 3VA (Factory fitted option to operate from 24V DC supply is available to order) |
| Temperature range | |
| Operating : | 0° C to +50° C |
| Storage | -20° C to +80° C |
| Dimensions | 96 x 96 x 150 mm (panel cut-out 92 x 92 mm) |
| Weight | 0.5 kg (standard mains version) |

Ordering guide


Please use the following order codes - if in doubt call our Sales Office for assistance:


3000 


 **REQUIRED**
BCL Standard version
*** Customised version (code will be allocated at time of order)

 **OPTIONAL**
HS High Sensitivity input option

 **OPTIONAL**
IF RS232 Interface

 **OPTIONAL**
LF Low flow output (replaces pre-batch facility)

 **OPTIONAL**
5V 0-5V speed control output

 **REQUIRED**
115 115V AC power supply
230 230V AC power supply
24 24V DC power supply

The 5V speed control output option cannot be fitted if a DC supply is used to power a Batch Controller (this applies whether the intention is to use the 12V DC terminal on the instrument, or if the dedicated 24V DC supply option is ordered).

Examples:

3000BCL/115 Standard Batch Controller to operate on 115V AC mains supply

3000***HS/LF/230 Batch Controller with High Sensitivity option, single switch, to operate on 230V AC

MADE IN THE UK

Reliability, Guaranteed



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