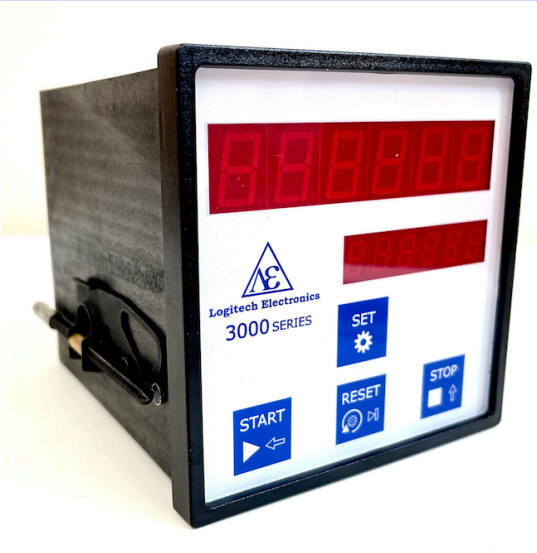
3000 Series MK3
Batch Controller



Family features

- Dedicated range of Batch Controllers
- Six decade easily read displays
- Primary display shows current batch progress (count up or down)
- Secondary display shows totalizer, current rate, batch status or batch quantity
- Microprocessor control
- Easy to set up and operate with touch button interface
- Scaling factors from 0.00001 to 999999
- Programmable decimal points
- Tamper protected programming
- Counts up to 4,000,000,000 pulses in a single batch (Suitable for use with a small scaling factor e.g. for flow measurement applications)
- 64-bit totalizer
- Facility for external Start, Stop and Reset switches
- Non-volatile counts & settings (retained if power is lost)
- Two high current relay outputs (Batch and Pre-batch or Batch and Low-flow)
- Batch and Prebatch open collector outputs
- Two configurable (high or low) rate alarm open collector outputs
- Opto-isolated control inputs and outputs for greater noise immunity

- DIN standard panel mounting case (96mm x 96mm)
- Versatile input compatible with magnetic pickups, Hall effect sensors, reed switches, proximity sensors & rotary encoders.
- Sensitivity from 12mV rms
- Choice of supply 100Vac to 240Vac & 10-30Vdc, or 10-30Vdc only

Standard options

- USB connector for setup, control and monitoring via free to download Microsoft Windows based software
- Digital frequency scaled output (pulse to supply)
- Low flow output (replaces pre-batch output)
- Analogue rate output, user selected from 0 - 5V, 1 - 5V, 0 - 10V, 2 - 10V, 0 - 20mA, or 4 - 20mA
- Analogue speed control output (programmable acceleration and deceleration), user selectable from 0 - 5V, 1 - 5V, 0 - 10V, 2 - 10V, 0 - 20mA, or 4 - 20mA

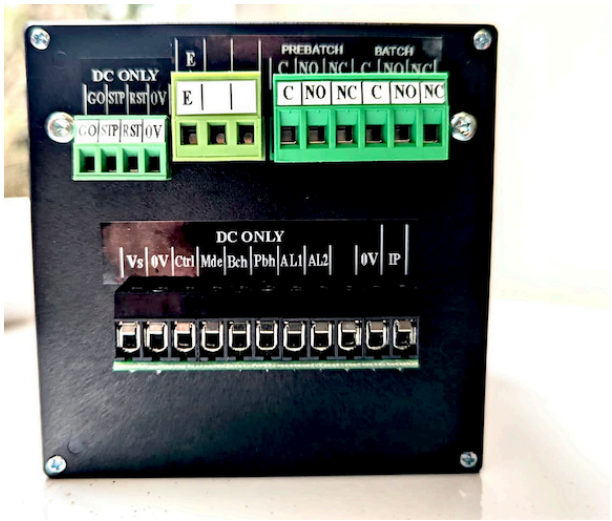
Special options

- 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

Primary Display	6 decade 14mm, seven segment high brightness red LED
Secondary Display	6 decade, 8mm, seven segment high brightness red LED
Decimal points	User programmable from front panel
Scaling Factors	User programmable and retained in non-volatile memory
Signal inputs	Protected to 100V
Sensitivity	User adjustable from 12mV
Frequency	Up to 50kHz maximum (200Hz in Reed Mode)
Impedance	15kΩ minimum
Control inputs	External Start, Stop and Reset (connect to 0V to operate)
Relay Outputs	Normally open and normally closed contacts, rated to 8A @ 240V AC
Alarm & Status Outputs	60Vdc maximum, sink of 150mA maximum
Digital Output *("D" option only)*	Pulse to supply, internal 4.7kΩ pull-up or sink of 150mA maximum
Analogue Output *("A" option only)*	User selectable as 0 - 5V, or 1 - 5V, or 0 - 10V, or 2 - 10V 0 - 20mA, or 4 - 20mA
Connections	Push in connectors & screw terminals on the rear panel.
Power Requirement	
AC	100Vac to 240Vac, 50/60Hz
or	
DC	10Vdc to 30Vdc
Power Output (with AC supply only)	9Vdc nominal @ 100mA maximum
Temperature range	
Operating :	-20° C to +70° C
Storage	-20° C to +85° C
Dimensions	96 x 96 x 108mm (panel cut-out 92 x 92 mm)

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
IF RS232 Interface
A Analogue Output
D Digital Output

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

■ OPTIONAL
DC DC only power supply

MADE IN THE UK

Reliability, Guaranteed

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Design and Manufacture of Electronic Systems and Instrumentation. Supply of Sensors and Transducers

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