

2000 MKII Series Counters



Family features

- ▶ Dedicated range of Counters with many variations available or to special order
- ▶ Six decade and sign easily read display
- ▶ Microprocessor controlled
- ▶ Easy to set up and operate
- ▶ Scaling factor from 0.000001 to 999999 (+ or -)
- ▶ Offset facility (+ or -)
- ▶ Programmable decimal point
- ▶ Non volatile count (count is retained if power is lost)
- ▶ Counts up to 4,000,000,000 pulses (suitable for use with a small scaling factor e.g. for flow measurement applications)
- ▶ Half DIN panel mounting case (96mm x 48mm)
- ▶ 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)
- ▶ Analogue input
- ▶ Serial output
- ▶ Fully scalable analogue output (0-1V, 0-5V, 0-10V, 0-20mA or 4-20mA)
- ▶ Higher voltage output for transducer supply (24V DC @ 50mA max)
- ▶ 5V to 35V DC supply (suitable for use with vehicles operating on 24V batteries)
- ▶ Count up and count down inputs
- ▶ Facility for external Start, Stop and Reset switches
- ▶ Compatible with quad bidirectional signal
- ▶ Batch and pre-batch outputs
- ▶ Combined Counter/Tachometer version (also known as a Totaliser/Ratemeter)
- ▶ Splashproof cover

Special options

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

Typical applications

- ▶ Production counter
- ▶ Length measurement
- ▶ Flow totaliser (scaled in litres, ml etc.)
- ▶ Cut to length systems
- ▶ Batch counting with slow down signal at pre-batch







Technical specification

Display	6 decade and sign, 10mm, seven segment high brightness red LED
Decimal point	User programmable
Scaling	User programmable and retained in EEPROM (non volatile memory)
Signal inputs (specified)	Count up and Count down (Signal A and Signal B if quadrature input is specified)
Sensitivity	User adjustable from 200mV to 10V (protected to 100V). (Factory fitted High Sensitivity option allows low input level of 12mV minimum).
Impedance	15k ohm minimum.
Control inputs	Start, Stop and Reset (require sink to 0V of 220 ohms maximum)
Outputs	
d.c. voltage	10V to 12V DC unregulated @ 80mA maximum
Alarm	Open collector 200mA 60V maximum (see Relay option below)
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 48 x 104 mm (panel cut-out 92 x 43 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:

2000 

	REQUIRED		
	C	Standard Counter	
	BC	Batch Counter	
	CT	Combined Counter/Tachometer	
	QC	Quadrature Counter (Bi-directional)	
	OPTIONAL		
	HS	High Sensitivity input option	
	HV	Higher transducer supply voltage	
	OPTIONAL		
	IF	RS232 Interface	
	OPTIONAL ANALOGUE OUTPUT		
	020	0 - 20mA analogue output	Note the analogue output option cannot normally be fitted if a DC supply is used to power a Counter. If you need this facility, contact our Sales Office for a quote to supply a modified instrument.
	420	4 - 20mA analogue output	
	1V	0 - 1V analogue output	
	5V	0 - 5V analogue output	
	REQUIRED		
	F	Full switch option	
	S	Single switch option (only the FUNC switch is instantly accessible - the other switches are hidden behind the front panel)	
	REQUIRED		
	115	115V AC power supply	
	230	230V AC power supply	
	24	24V DC power supply	

Optional Enhancements for the 2000 Series Range (Order Separately)

SPC4	Splash-proof cover
A_IN1V	Analogue input module (0-1V)
A_IN5V	Analogue input module (0-5V)
A_IN10V	Analogue input module (0-10V)
A_IN020	Analogue input module (0-20mA)
A_IN420	Analogue input module (4-20mA)
RMOD	Relay Module

Examples:

- 2000C/F/115 Standard Counter with full switch set, to operate on 115V AC mains supply
- 2000BCHS/S/230 Batch Controller with High Sensitivity option, single switch, to operate on
230V AC
- 2000QC/420S/230 Quadrature Counter with 4 - 20mA analogue output, single switch option, to
operate on 230V AC

MADE IN THE UK

Reliability, Guaranteed



Logitech Electronics Limited

e: sales@logitechelectronics.com
t: +44 (0)1952 820444

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

www.logitechelectronics.com

Lane End | Church Aston | Newport | Shropshire | TF10 9JJ | UK