

2000 MKII Series Tachometers



Family features

- ▶ Dedicated range of Tachometers with many variations available to 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
- ▶ Dual channel (A and B inputs – 30KHz max single input, 15KHz max dual input)
- ▶ Dual function (frequency and ratio)
- ▶ High and Low alarms
- ▶ 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)
- ▶ 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)
- ▶ 15V to 35V DC supply (suitable for use with vehicles operating on 24V batteries)
- ▶ Separate settings – all user settable parameters are independent for each channel and each function
- ▶ Averaging over long periods of time (Ratemeter)
- ▶ 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

- ▶ Indication of shaft RPM
- ▶ Ratio of two shaft or roller speeds
- ▶ Percentage difference between two shaft speeds
- ▶ Linear speed of conveyor or process material
- ▶ Flow rate measurement (scaled in litres/min, ml/sec etc.)
- ▶ Frequency deviation from a programmed mean


Technical specification


Display	6 decade and sign, 10mm, red seven segment high brightness LED
Decimal point	User programmable
Scaling	User programmable and retained in EEPROM (non volatile memory)
Signal inputs	Signal A and Signal B
Accuracy	0.05% with a square wave at 1V peak
Frequency	Standard version - Single input 30KHz maximum; dual inputs 15KHz maximum Optional Fast version - up to 450KHz on dual inputs
Sensitivity	User adjustable from 200mV to 10V (protected to 100V) (Factory fitted High Sensitivity option allows low input level of down to 12mV)
Impedance	15k ohm minimum
Control inputs	Mode change (frequency A, frequency B, ratio A/B, ratio B/A) Reset (if alarm is set to latching mode). Requires sink to 0V of 220 ohms max.
Outputs	
DC voltage	10V to 12V DC unregulated @ 80mA maximum
Alarm below)	High / low alarms - open collector 200mA @ 60V maximum (see relay option
Connections	Screw terminals on the rear panel
Power requirements	Factory selected at 115V <i>or</i> 230V AC 50/60Hz, Loading 3VA (Factory fitted option to operate from a 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**
S Standard Tachometer (no code needed for normal alarm operation)
CT Combined Counter/Tachometer (also known as Totaliser/Ratemeter)
FT Fast Tachometer (up to 450kHz input signal)
QT Bidirectional Quadrature Tachometer
R Ratemeter (long integration times or one-off events)
RCL Rate Controller (this model includes the 4-20mA output as standard)
V Velocity Meter


 **OPTIONAL**
L Latching alarm
P Pulsed alarm
T Toggled alarm


 **OPTIONAL**
HS High-sensitivity input option
HV Higher transducer supply voltage (24V DC @ 50mA)

 **OPTIONAL**
IF RS232 Interface (serial output)

 **OPTIONAL ANALOGUE OUTPUT**
020 0 - 20mA analogue output
420 4 - 20mA analogue output
1V 0 - 1V analogue output
5V 0 - 5V 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.

 **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:

2000T/5VF/115

Tachometer with 0-5V analogue output & full switch set, for 115V AC mains supply

2000THSIF/S/230

Tachometer with high sensitivity input, RS232 & Single switch options, for 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