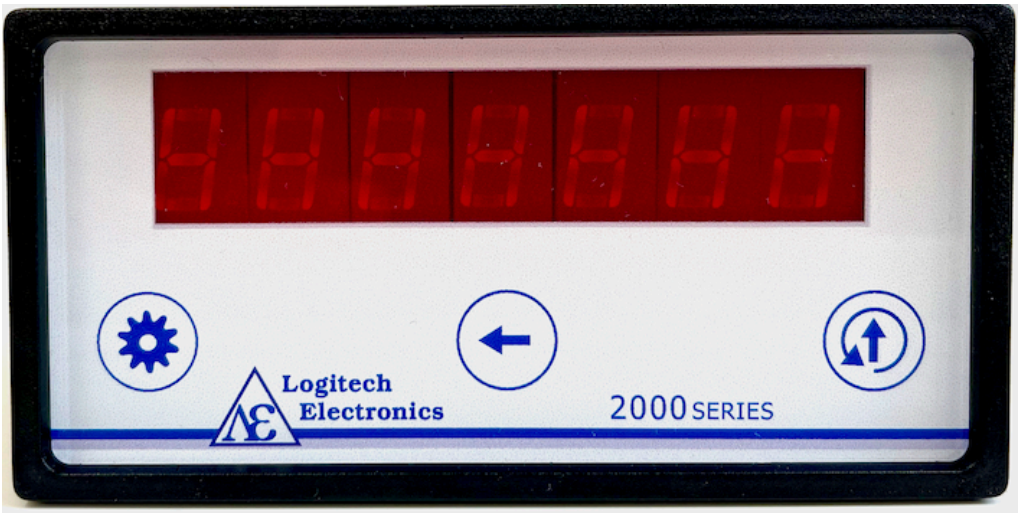
# 2000 MKIII Series
# Tachometers




## Family features

- Dedicated range of Tachometers with many variations available to order
- 7 decade (or six decade and sign) easy-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 – 50kHz max single input, 30kHz max dual input)
- Dual function (frequency and ratio)
- Two alarms (high or low configurable)
- Half DIN panel mounting case (96mm x 48mm)
- Choice of supply: 12 - 30Vdc or 100 - 240Vac
- High sensitivity input (from 12mV rms – suitable for use with flow measurement devices)
- Separate settings – independent settings for each channel/mode

## Standard options

- Analogue input
- Serial output
- USB connectivity
- Averaging over long periods of time (Ratemeter)
- Combined Counter/Tachometer version (also known as a Totaliser/Ratemeter)
- Splash-proof 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

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|---|---|
| **Display** | 7 decade (or 6 decade and sign), seven-segment, 10mm, high-brightness red LED display. |
| **Decimal point** | Programmable via display |
| **Scaling** | Programmable via display, retained in non-volatile memory |
| **Signal inputs** | Protected to 100Vdc |
| **Standard sensitivity mode** | From 90mV @ 10Hz, 170mV @ 10kHz |
| **High sensitivity mode** | From 12mV @ 10Hz, 20mV @ 10kHz |
| **Frequency** | 50kHz maximum with single input (200Hz in reed mode)<br>30 kHz maximum with dual inputs (200Hz in reed mode) |
| **Impedance** | 15kΩ minimum |
| **Accuracy** | <0.01% with square wave at 1V peak |
| **Alarms** | 60Vdc maximum, sink of 150mA maximum |

| | |
|---|---|
| **Digital Output** (**"D" option only**) | Pulse to supply, internal 4.7kΩ pull-up to supply or sink of 150mA maximum |
| **Analogue voltage and current** (**"A" option only**) | User selectable as 0 - 5V, or 1 - 5V, or 0 - 10V, or 2 - 10V<br>0 - 20mA, or 4 - 20mA |
| **Connections** | Screw terminals on the rear panel |
| **Power requirement** | |
| **DC** | 12 - 30Vdc via power connector or Vs and 0V terminals |
| **AC** | 100 - 240Vac |
| **Temperature range** | |
| **Operating** | -20°C to +70°C |
| **Storage** | -20°C to +85°C |
| **Dimensions** | 96 x 48 x 72 mm (panel cut-out 92 x 43 mm) |

## Ordering guide

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

**2000 ■ ■ / ■**

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REQUIRED

| | |
|---|---|
| **T** | 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 |

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OPTIONAL

| | |
|---|---|
| **L** | Latching alarm |
| **IF** | RS232 Interface (serial output) |
| **A** | Analogue output |
| **D** | Digital output (pulse to Vs) |
| **USB** | USB connectivity (see 2000USB Software User Guide) |

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REQUIRED

| | |
|---|---|
| **AC** | 100 - 240Vac supply |
| **DC** | 12 - 30Vdc supply |

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