200 MKIII Series
Tachometers



Family features

- Dedicated range of Tachometers
- Four decade easily read display
- Microprocessor control
- Easy to set up and operate
- Scaling factor from 0.001 to 9999
- Programmable decimal point
- Touch-operated programming buttons on front panel
- Lock input on rear terminals to prevent tampering
- Dual function - frequency and ratio. 40kHz max input on one channel or 20kHz max input in dual channel (ratio) mode
- Half DIN panel mounting case (96mm x 48mm)
- Choice of supply 100-240VAC / 12-30Vdc
- Input switchable between standard/high sensitivity and reed switch

Standard options

- Splash-proof cover
- Analogue/digital/alarm outputs
- wait time for low frequency measurements <1Hz

Special options

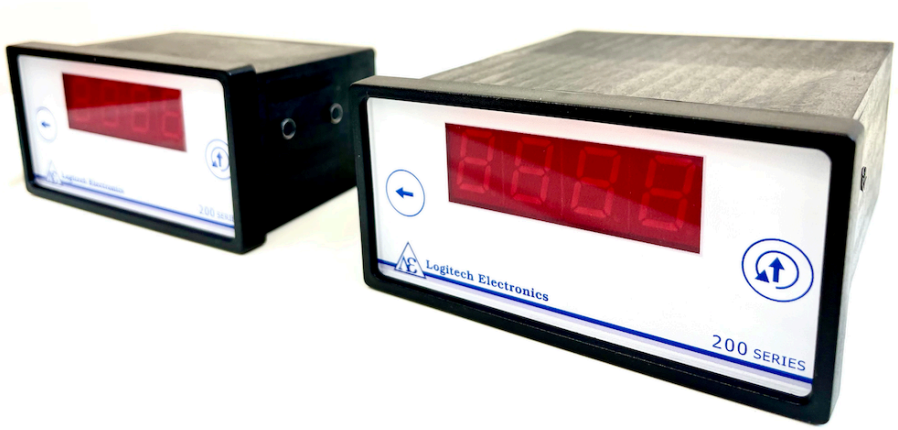
- Customised design or operation to suit unusual or dedicated applications – call our Sales Office to discuss your requirements

Typical applications

- Indication of shaft RPM.
- Ratio of two shaft or roller speeds.
- Linear speed of conveyor or process material.
- Flow rate measurement (scaled in litres/min, ml/sec etc)

Technical specification

Display	4 decade, 14mm, 7-segment high-brightness red LED
Display Update	Programmable via display to 100ms, 250ms, 500ms or 1s
Decimal point	Programmable via display
Scaling	Programmable via display, retained in non-volatile memory
Signal inputs (A and B)	Protected to 100V
Standard sensitivity mode	From 90mV @ 10Hz, 170mV @ 1kHz, 870mV @ 10kHz
High sensitivity mode	From 12mV @ 10Hz, 20mV @ 1kHz, 70mV @ 10kHz
Frequency mode	1Hz minimum (standard model) 40kHz maximum with single input (200Hz in reed mode)
Ratio mode	1Hz minimum (standard model) 20kHz maximum with dual inputs (200Hz in reed mode)
Impedence	15kΩ minimum
Accuracy	<0.01% with square wave at 1V peak
Optional Outputs	
2 x configurable alarms	60Vdc maximum, 150mA maximum (open collector)
Digital pulse	Pulse to supply, 150mA maximum
Analogue voltage and current	User selectable as 0 - 5V, or 1 - 5V, or 0 - 10V, or 2 - 10V 0 - 20mA, or 4 - 20mA
Connections	Screw terminals on the rear panel
Power requirements	
DC model	12 - 30Vdc via power connector or Vs and 0V terminals
AC model	100 to 240Vac 50/60Hz
Temperature range	
Operating **Storage**	0° C to +50° C -20° C to +80° C
Dimensions	
DC model **AC model**	96 x 48 x 72 mm (panel cut-out 92 x 43 mm) 96 x 48 x 118 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:

200 ■ ■ **/** ■

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REQUIRED

T	Standard 200 MKIII Series Tachometer
T❊❊	Customised version (code will be allocated at time of order)

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OPTIONAL

L	200 MKIII Series Tachometer with alarm outputs
A	200 MKIII Series Tachometer with analogue voltage/current output
AL	200 MKIII Series Tachometer with analogue voltage/current and alarm outputs
D	200 MKIII Series Tachometer with digital output
TDL	200 MKIII Series Tachometer with digital and alarm outputs

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REQUIRED

AC	100 - 240V AC power supply
DC	12 - 30V DC power supply

MADE IN THE UK

Reliability, Guaranteed

ISO 9001 QUALITY MANAGEMENT

UKAS MANAGEMENT SYSTEMS 0015

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

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