Machine Condition Monitoring

Approved Distributor for: MONITRAN, Compact Instruments Limited, COMMTEST INSTRUMENTS, Raytek Gemini

Machine Condition Monitoring Ltd.

Intrinsically Safe Optical/Contact Tachometers
New and Totally unique

World's First !

The only hand held range of Digital Optical/Contact Tachometers for hazardous areas

Certificate no:
BAS01ATEX2301X
Certification class:
EEx ia IIC T4
ATEX II 2 G

* **Four types available**

Two Laser light source versions

* **Model A2109/LSR for Measurement only**
* **Model A2109/LSR/002 for Measurement and pulse output facility**

Two LED light source versions

* **Model A2109/LED for Measurement only**
* **Model A2109/LED/002 for Measurement and pulse output facility**

The very high level of certification EEx ia IIC T4 - ATEX II 2 G, allows use in a wide range of hazardous environments in petrochemical, Gas & volatile materials processing industries.

The Advent Tachometers very comprehensive operational features provide the user with the ultimate in Optical & Contact speed monitoring not previously possible in hazardous areas.

LCD Features our unique vertical Display with 180 deg. inversion capability





Contact adaptor

Complete Kit



Pulse output facility

The Pulse output models also have a camera tripod bush fitted as standard, this feature is ideal for "hands free" applications, for example, continuous monitoring speed of machines, test rig providing easy to set up speed check & recording facilities.

Warning

The pulse output must only be connected through approved equipment.

Pulse output connections



Tripod mounting fixture standard



Machine Condition Monitoring (MCM) Ltd., Garth Glyd, Llanynys, Dinbych, Sir Ddinbych, North Wales, LL16 4PB.
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Registered Office: 40-49 Price Street, Birmingham, B4 6LZ.

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Technical specification

Two Optical systems

	A2109/LED	A2109/LSR
Light source	Visible Red LED	Red Laser
Range	100 - 1000mm	100 - 2000mm
Angle	+/- 45 Deg.	+/- 80 deg.
Light source	Red LED	Laser Class II
Wavelength	NA	655nm
Power output	NA	1mw

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General Specification - All models

speed range	- 3 - 99,999 rpm or rps equiv.
Resolution	- max. in autorange 0.001
Accuracy	- 0.05% +/- 1 digit
Update time	- 0.8 sec
Capture mode	- 0.1 Sec
Count	- 0-99999 revs or length in linear
Time interval	- 0-99999 secs (auto)
Memory hold	- Holds last reading 1 minute
On target ind.	- Yes
Low bat. ind.	- Yes
Operating temperature	- -20 to +40 deg C
Storage temperature	- -25 to +70 deg C
Contact adaptor	- Supplied
Housing material	- High flow ABS - Metalised
Carrycase	- Supplied
Battery Power	- 4 x AAA Procell Alkaline batteries - supplied
Reflective Tape	- Pack of tape supplied
Certificate	- Calibration certificate included
Dimensions	- L 21cm x W 4cm x D3.5cm
Weight (kit)	- 0.4 Kg

Data and Averaging features

Maximum	- Captures max. speed in 0.1 secs
Minimum	- Captures min. speed in 0.1 secs
Timebase	- 0.1 seconds in Capture mode
Average	- Averages over last 8 readings

Contact measurements -

With A2100/01 Adaptor fitted (supplied)
Revs - Metres - Feet - Yards
per min or per second or length

Models A2109LED/002 & A2109/LSR/002

Pulse Output facility - 5v Pulse output
Signal output via socket on rear of housing
Supplied with 2 metre BNC output cable

Warning
The pulse output must only be connected through EEx approved equipment.

Optical Sensor mode
Autopower on - Sensor operates when output cable plug is connected to output socket from internal batteries.

Order codes	- Description
Measurement only models	
A2109/LSR	- Laser light source
A2109/LED	- LED light source
Data output models	
A2109/LSR/002	- Laser light source
A2109/LED/002	- LED light source

Patents
UK No: 9619171.3
USA 08/770,265 (pending)
PCT No: PCT/GB/97/02460 (pending)
Registered design No: 2059299

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