

Advent Laser Optical/Contact Tachometers A2109/LSR

World's first intrinsically safe Hand Tachometer

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 Tachometer's very comprehensive operational features provide the user with the ultimate in Optical & Contact speed monitoring not previously possible in hazardous areas.

Display features

Vertical display
Inverting Mode
Large LCD

Special features - Capture mode

Max/Min Captures max speed in 0.1 secs
Min/Max holds min. reading during a measurement

Fast timebase **0.1 seconds in Capture mode**
Average Averages over last 8 readings

Optical system - A2109/LED

Light source visible red LED
Range 100 - 1000mm
Angle +/- 45 deg.

Optical system - A2109/LSR

Light source Laser class II
Range 100 - 2000mm
Angle +/- 80 deg.
Wavelength 635nm
Power output 1mw

General Specification

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
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

Contact measurements

With A2100/01 Adaptor fitted (supplied)
rpm, rps, Metres, Feet, Yards per min or per second or total revolutions or length.

Signal Output features -

Model A2109LED/002 & A2109/LSR/002
Pulse Output facility - 5v Pulse output. Output via socket on rear of housing, supplied with 2 metre BNC output cable.

- **Pulse output facility**
- **Tripod bush**
- **Signal output cable - 2 metres free ends**
- **Remote on/off via cable**

Supplied with own carry case



The 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.

Order codes	Description
A2109/LSR	Laser light source
A2109/LED	LED light source
A2109/LSR/002	Laser light source + Pulse O/P
A2109/LED/002	LED light source + Pulse O/P

