

Advent Laser Optical/Contact Tachometers A2109/LSR

World's first intrinsically safe Hand Tachometer

Two Laser light source versions

- Model A2109/LSR for measurement only
- Model A2109/LSR/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.

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/LSR

Light source Laser class II
Range 100 - 2000mm
Angle +/- 80 deg.
Wavelength 655nm
Power output 1mw

Certificate of calibration.

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 - 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

General Specification

| | |
|------------------|---|
| Speed range | 3 - 99,999 rpm or rps equiv. |
| Resolution | max. in autorange 0.001 |
| Accuracy | 0.05% +/- 1 digit |
| Update | 0.8 sec |
| Capture mode | 0.1 sec |
| Count | 0-99999 revs or |
| Time interval | 0-99999 secs (auto) |
| Memory hold | Holds last reading 1 minute |
| On target ind. | Yes |
| Low battery ind. | Yes |
| Operating temp | -20 to +40 deg C |
| Storage temp. | -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 Inc. |
| Dimensions | L 21cm x W 4cm x D3.5cm |
| Weight(kit) | 0.4 Kg |

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/LSR/002 | Laser light source + |