

# A2109/LSR

## CERTIFICATION



ⓂII 2G Ex ia op is IIC T4 Gb

## STANDARD DELIVERY

- A2109/LSR
- Batteries
- Adaption wheel
- Carrying case
- Calibration statement
- Instruction manual

## FEATURES & FUNCTIONS

- High accuracy
- Handy size
- Digital display also for over-head measurement
- Types of measurement – revolution, speed
- Measurement range 3 ... 99.999 rpm

## Laser-Tachometer A2109/LSR FOR ZONE 1

### CONTACTLESS AND PRECISE

The A2109/LSR is ideal for fast laser-accurate measurement of the revolution of a shaft (either with or without contact) and speed (utilising the special adapter) in Zone 1. The simple 3 push-button operation and the large clearly-readable display with over-head facility enables a wide, flexible field of application. This light-weight device provides an easy one handed operation and facilitates the carrying-out of measurement, after which it can be stowed away in the tool box or jacket pocket. For boiler mixers, the rotor speed can be read from the drive shaft at a safe distance and documented. Motor revolutions can be acquired contactlessly in the immediate vicinity without having to open or remove safety fittings such as covers or protective grills. The duration of pulses or the intervals between them can be simply, easily and accurately ascertained. Data can be simply acquired within Ex-protected areas without having to switch machines off because laser-accurate measurements can be made at a safe

distance through protective devices thus complying with safety regulations. The transport speed of conveyor belts can be exactly measured using the add-on adapter and thus directly recorded in the documentation.

### OPERATION AND DISPLAY

- ON button – Auto-Off after 1 min.
- HOLD function for 1 min. after releasing button
- Programming function using 3 buttons
- Statistic functions (min./max./average)
- 5 digit
- Large display
- LOW-batt. display
- Pulse recognition
- Function mode

# FLEXIBLE MEASUREMENT IN ZONE 1

ZONE 1



TECHNICAL DATA	
Ambient temperature	-20 °C ... +40 °C
Measurement range	3 ... 99.999 rpm   0.05 ... 1.666 rps   Autoselect
Accuracy (at rate)	0.02 % ±1 Digit
Resolution	0.001 digit or ± 1 digit fix (selectable) (in autorange)
Measuring system	optical/laser reflection
Measuring function Rotational speed	rpm      rps
Measuring function Speed	m/min   m/Sek.   yd/min   yd/Sek.   ft/min   ft/Sek.
Measurement distance	max. 2 m
Time interval	Sek.
Laser class	2
Battery-Low	Display
Power supply	4 x Duracell Procell AAA Alkaline
Operating time	approx. 6 months
Dimensions	215 (260) x 40 x 40 mm w/o (with) adapter
Weight	approx. 360 g (with battery)

## ACCESSORIES

ARTICLE NO.	PRODUCT DESCRIPTION	
A0003007	Accessory reflective tape scotchlite 3290 white 5x (2.5 x 15) cm	
A0003008	UKAS Calibration – 8 calibration points: rpm 6, 60, 600, 3000, 6000, 15000, 30000, 60000	
A0003009	WKS Calibration	

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