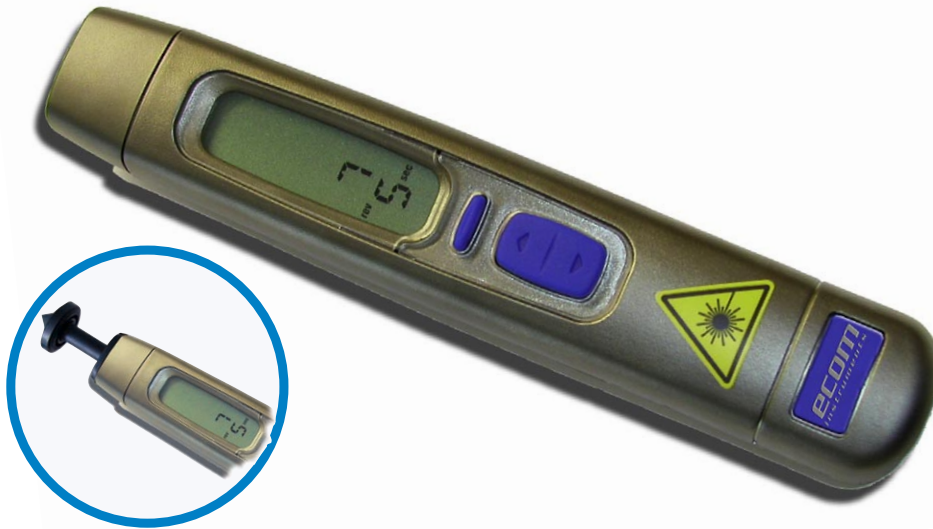


Intrinsically-Safe Laser Tachometer Ex-Tacho I 0



The Ex-Tacho I 0 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 0. 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 measurements after which it can be stowed away in the tool box or jacket pocket.

Applications are to be found in the process-control field for the contactless measurement of the revolutions of a shaft at a safe distance using a laser beam. For boiler mixers, the rotor speed can be read-off 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.

Technical data:

Measuring system:	optical / laser reflection	
Measuring function:		
Rotational speed:	rpm	rps
Speed:	m / min. yd / min ft / min	m / sec. yd / sec. ft / sec.
Time interval:	sec.	
Measurement range:	3 ... 99,999 rpm 0,05 ... 1,666 rps autoselect	
Accuracy:	0,001 (in the autorange) +/- 1 digit	
Resolution:	0,001 (in the autorange) +/- 1 digit	
Measurement angle:	max. +/- 80° to the measurement object	
Measurement distance:	max. approx. 6 feet	
Operating temp.:	-4 ... +104 °F (-20° to +40° C)	
Storage temp.:	-4 ... +104 °F (-20° to +40° C)	
Dimensions:	8,5" (10) x 1,6" x 1,6" w/o (with) adapter	
Weight:	approx. 1,3 oz with battery	
Power supply:	4 x Duracell Procell AAA alkaline	
Battery-Low:	display	
Battery life:	approx. 3 ... 6 months	

For the accurate and fast measurement of shaft rotation or speed with or without contact to Zone I.

- High accuracy
- Handy size
- Measurement in up to Zone I
- Digital display also for over-head measurement
- Types of measurement – revolution, speed
- Measurement range 3 ... 99,999 rpm

Operation:

- 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)

Display:

- 5 digit
- Large display
- LOW-batt. display
- Pulse recognition
- Function mode

Ex-data:

Ex designation:
Ⓜ II 2 G EEx ia IICT4

EC-Certificate of conformity:
BAS01ATEX2301X

Scope of supply:

Ex-Tacho I 0 includes safety instructions, batteries and test certificate.

