



## Intrinsically-Safe LED Stroboscope Tacholite TL 20-Ex

Observe systems at work without shutting them down! The Tacholite TL 20-Ex is a high-performance digital LED stroboscope for daily use in the ex-area. It is especially useful for observing and inspecting systems that exhibit rapid periodic motion sequences. It is certified for use in ex-hazardous areas classified as zone 1 according to 1999/92/EG (ATEX 137).



The Tacholite TL 20-Ex is a compact, intrinsically-safe LED stroboscope that allows you to inspect your facilities without shutting down the system. It is useful for inspecting maintenance markers on clutches, as well as belt drives and pulleys, roller bearings or compactors. It allows you to see the system at a virtual standstill in order to see what maintenance is necessary. Also making it easier to recognise imbalances and faulty bearings. The TL 20-Ex can also be used to measure engine speed without the need for using reflective markers. As soon as a contrast emerges, engine speed can be determined with high accuracy.

**The applications of a stroboscope are nearly endless.**

In the field of machine construction, cogwheels and their level of wear or the distribution of coolants and lubricants can be inspected quickly and easily. Of course, clutch slip, drive imbalances and resonance vibrations can also be recognised simply, easily and safely.

There are also electrical engineering applications. For instance, cable feeds to vibrating machines can be checked for wear or damage without turning off the machine.

Likewise, mixing and dosage processes can be monitored via a stroboscope. For instance, it can be used to determine the cause of drop formation during automation processes. This helps you quickly get to the root of problems and make settings adjustments.

- Certified for zone 1
- Simple digital control of flash frequency with cursor keys
- Robust aluminum housing
- Broad field of application up to 21000 U/min or 350 Hz
- Switch from frequency to revolutions with a button

### Scope of delivery:

- TL 20-Ex
- Battery
- Operating instructions

### Ex-Data:

Ex-designation:  
 Ⓜ II 2 G Ex ia IIC T4

EC-Certificate of conformity:  
 BVS 08 ATEX E 033

Technical Data:	
Ambient temperature:	-20 °C ... +50 °C
Storage temperature:	-30 °C ... +60 °C (without batteries)
Dimensions:	approx. 128 x 84 x 35 mm
Ingress protection:	IP 65
Measurement accuracy:	< 0.01 %
Frequency range:	1Hz – 350 Hz
Speed:	60 – 21000 rpm
Illuminant:	20 LEDs
Ingress protection:	IP 65
Power supply:	9 V battery, type approved
Operating time:	2 h