



TLGU 10

SKF Ultrasound Lubrication Checker

Ultrasonic sensor improves maintenance practices when re-lubricating bearings

Designed for maintenance technicians, the TLGU 10 uses ultrasonic technology to improve manual re-lubrication. When connected to a grease gun, the intuitive device helps a technician to dispense the correct amount of lubricant into a bearing. By overcoming the problems associated with over- or under-lubrication, it can help to extend bearing life. The device is recommended for a range of bearing applications including electric motors, pumps, fans, compressors and conveyors.

- Easy to use**
 The TLGU 10 is supplied as a kit. Combining sound with visual displays helps the technician to re-lubricate with maximum accuracy.
- Saves cost**
 As well as avoiding over-lubrication – and excess grease costs – the added accuracy improves the reliability of a customer’s assets.
- Increases reliability and accuracy**
 Rather than using theoretical models or experience, a technician is given accurate, real-time guidance on the progress of the re-lubrication process.
- Extends bearing life**
 Accurate re-lubrication leads to optimum bearing performance, which reduces the likelihood of wear and failure.





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Re-lubrication is critical to extending the life of bearings yet is often carried out based on experience. The TLGU 10 makes re-lubrication a more practical, condition-based process, by delivering the correct amount of lubricant to a bearing at the right time.

The device is simple to use, and relies on a robust, repeatable ultrasound sensor that is optimised for harsh conditions. The sensor monitors the sound of lubricant filling the bearing. Once connected to a grease gun, the

TLGU 10 allows a technician to listen to this sound, via headphones. The sound changes abruptly at the point where the correct amount of lubrication has been applied. In addition, a coloured display indicates noise levels for ease of use.

The combination of sound and visual display helps technicians to re-lubricate quickly and accurately – with the right amount. Under-lubrication can cause premature bearing failure or allow contaminants into the bearing. Over-

lubrication is wasteful and expensive and can cause serious complications. Both over- and under-lubrication can reduce bearing lifetime.

The TLGU 10 helps technicians to deliver the optimum amount of lubricant in order to maximise bearing performance and lifetime.

Note: The grease gun is not included in the scope of delivery of TLGU 10. SKF offers a range of grease guns which can be purchased separately.

Technical data

Designation	TLGU 10		
General		Power	
Description	Ultrasound lubrication detector	Battery	2 AA batteries
Measurement channel	1 channel via a 7 pole LEMO connector	Battery life	7 hours
Display	160x128 pixels Color OLED	Environmental	
Keyboard	5 function keys	Operating temperature	From -10 to +50 °C (14 to 122 °F)
Measuring range	-6 to 99.9 dBµV (reference 0 dB = 1 µV)	IP rating	IP42
Resolution	0.1 dB	Mechanical	
Measurement	Bandwidth 35 to 42 kHz	Housing material	ABS
Signal amplification	+30 to +102 by step of 6 dB	Dimensions instrument	158 × 59 × 38,5 mm (6.22 × 2.32 × 1.51 in)
Audio		Flexible rod length	445 mm (17.51 in)
Amplification	5 adjustable positions in steps of 6 dB	Weight instrument	164 g (5.78 lb)
Maximum output	+83 dB SPL with supplied headset	Carrying case dimensions	530 × 110 × 360 mm (20.9 × 4.3 × 14.2 in)
Headset	25 dB NRR Peltor HQ headset	Total weight (incl. case, sensor and 2 AA batteries)	3 kg (6.6 lb)
Headset connector	Stereo jack connector of 6.35 mm (1/4 in)		

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