

SHIELD LUBRICATORS

Shield TGL Temperature-Independent Lubrication System

A PERFECT LUBRICATION SOLUTION FOR ENVIRONMENTS WITH HIGH TEMPERATURE FLUCTUATIONS

Shield TGL is a complete lubrication system for challenging environments, providing the right lubrication to your equipment at the right time.

Shield TGL provides hassle-free lubrication from 1 to 12 months via the digital TGL control unit. It can be used in all application areas from -20°C to $+60^{\circ}\text{C}$ (-4°F to $+140^{\circ}\text{F}$). Shield TGL takes into account the ambient temperature and then calculates the required quantity of gas for constant and reliable discharge. Shield TGL consists of a reusable control unit, a Shield TGL lubricant cartridge (LC) filled with grease or oil, and a protective cover. Shield TGL is available in two sizes: 65 cc (2.20 oz) and 125 cc (4.23 oz).

APPLICATIONS / MACHINE ELEMENTS

Shield TGL was specifically developed for single-point lubrication on multiple applications, including fin fans, electric motors, pumps and blowers, in areas with considerable temperature variations (e.g., outside installations).

The lubrication system is protected against dust and water jets (IP 65), subject to correct assembly of the individual parts.



I M1 Ex ia I Ma
II 2G Ex ia IIC T4 Gb
II 2D Ex ia IIIC T135°C Db
ZELM 09 ATEX 0420 X
 $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

ANZEx



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PRODUCT CHARACTERISTICS **BENEFITS**

Electronic control unit with temperature compensation shows discharge period/ operating status

LCD display and push button setting:
1, 2, 3 ... 12 months

System operates reliably from
-20°C to +60°C (-4°F to 140°F)

Ex-proof certification
IP 65

- Discharge period setting independent of ambient temperature
- Accelerated pressure build-up for first discharge within one day
- Simple and safe handling
- Reusable Shield control unit
- Universal use both in cold areas and at higher temperatures
- Temperature compensation permits use with heavily fluctuating ambient temperatures
- Safe and reliable lubrication in explosive areas
- Dust-tight and protected against water jets
- Increased workplace safety



TECHNICAL DATA

Drive – reusable
Electrochemical reaction via gas generating cells with electronic temperature compensation

Discharge period
1, 2, 3 ... 12 months

Lubricant volume
65 cc or 125 cc / 2.20 oz or 4.23 oz

Operating temperature
-20°C to +60°C / -4°F to 140°F

Pressure build-up
Max. 6 bar / 87 psi

Protection class
IP 65

Standard & special lubricants
Greases up to NLGI 2/oils

