

# Intrinsically Safe Loop Calibrator Ex-mAG 1000 L

The Ex-mAG 1000 L is a rugged and compact loop calibrator ideal for checking control devices, controlling elements and measuring intrinsically safe current loops.

Simple menu navigation and a large display allow the various functions to be selected with ease (see illustration 1). A 24V transducer feed is available using the measuring and the transmitting mode. Therefore, you can easily carry out checks during shut-down periods. The measured value is shown both in mA and % of span (0-20 or 4-20 mA) (ref. illustration 2). The output can be modified in steps of 0.001 using the arrow keys and also in larger steps by pressing the keys longer (Fast set).

Therewith tasks such as the checking of alarm limits can be quickly and easily carried out. In addition, the Ex-mAG has special functions, e.g. step and ramp function, continuity testing and switch testing. The internal Li-Ion battery is easily re-charged (outside of the Ex-area).



**For rapid calibration, error tracing and repairs in Ex-hazardous areas.**

- Measuring and transmitting 0.....24 mA
- Step and ramp function
- Voltage measurement up to 50V
- Li-Ion battery
- Rugged housing

**Ex-data:**

Ex designation:  
 Ⓜ II 2G EEx ia IIC T4  
 EC-type-examination certificate no.:  
 ZELM 03 ATEX 0186 X

**Standard delivery:**

- Unit
- Battery
- Charger
- Leather carrying case
- Operating instructions
- Factory calibration certificate

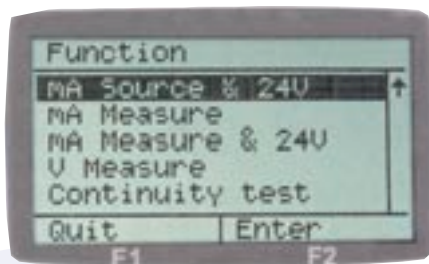


Illustration 1

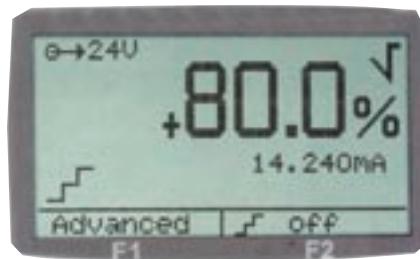


Illustration 2

**Technical data:**

Working temperature T <sub>a</sub> :	14°F ..... 104°F (-10°C.....+50°C)
Period of operation:	
Transmitting:	10 h (at 12 mA)
Measuring:	25 h
Power supply:	Li-Ion battery
Weight:	approx. 15.8 oz (ca. 450 g)
Dimensions:	5" x 3" x 1.3" (129x77x35 mm)

**Technical measuring characteristics:**

Function	Area	Resolution
Transmitting mA	24 mA	0,001
Transmitting mA and 24V	24 mA	0,001
Measuring mA	24 mA	0,001
Measuring mA and 24V	24 mA	0,001
Measuring V	50V	0,001
Continuity test	<100 Ω	