

# MAGNETOMETER SC 100 UN

Robust and handy  
Lightweight  
Simple to use  
Audio coding of field polarity  
Dynamic / static detection steps



## MAGNETOMETER SC 100 UN

### Application

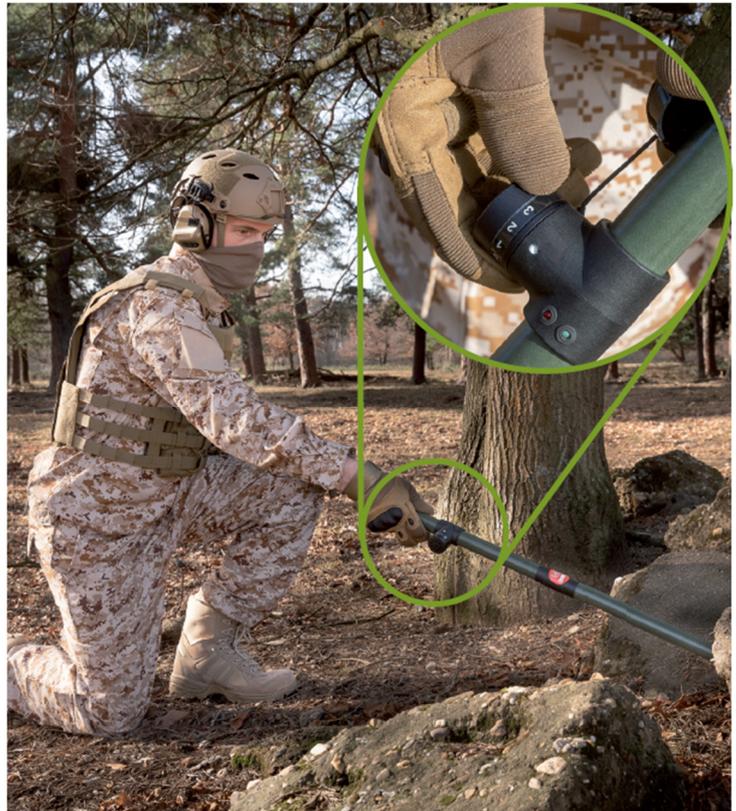
The SC 100 UN is a handy iron locator in longterm stable and innovative differential probe technology.

It detects magnetic anomalies in the normal magnetic field of the earth, as caused by buried ferromagnetic objects.

The detection range of the locator depends on the size, position and magnetic signature of the objects to be detected.

### Mode of operation

The probe is moved in wide sweeping movements over the ground. As soon as the locator's probe is moved into the vicinity of a ferromagnetic object, the local field distortion is converted into an audible alarm. The audio coding of the field polarity (pulsating/continuous) indicates the magnetic polarity (North or South pole) of the object to be detected.



Two dynamic detection steps are foreseen allow for fast subsurface localization of ferromagnetic parts. In this mode continuous magnetic interferences e.g. mineralized soil or fences can be suppressed to certain limits.

In the static mode the indication of deep buried ferromagnetic objects is provided by an audible signal, which rises in intensity as the detector approaches the target.

### Constructional features

The SC 100 UN is a bar-type device containing sensors which are connected in differential mode, an electronics and the battery compartment. The locator is put into operation by switching the rotary adjuster into one of the 3 sensitivity steps.

The detection signals are transmitted by a built-in piezo loudspeaker, which indicates the detected magnetic field by a continuous or pulsating increasing audio signal informing about the detected intensity and polarity.

### Delivery content and optional accessories

- Locator SC 100 UN with 9 V battery
- Test stick (*optional*)
- Rechargeable LiPol battery (6F22) (*optional*)
- Charger (*optional*)
- Soft bag (*optional*)
- Handgrip and armrest (*optional*)

#### TECHNICAL DATA

Power supply :  
 Battery 9 V (IEC) 6LR61  
 or rechargeable battery NiMH (9V / 250 mAh)  
 or rechargeable battery LiPo (9V / 550mA)

Autonomy:  
 14 h approx with alkaline battery  
 7 h approx. with NiMH battery

Temperature range : -20°C to +55°C

Sensitivity : 100 nT  
 Audio resolution : approx. 15 nT in step 3

Audio frequency : between 1Hz and 1,5 KHz

Weight : approx. 850g with battery

Total length : approx. 1100 mm