

SCHIEBEL



ATMID™

ALL TERRAIN
MINE DETECTOR

ATMID™ ALL TERRAIN MINE DETECTOR



The ATMID™ All Terrain Mine Detector combines advanced technologies to meet the dynamic challenge encountered by mine clearance professionals on the battlefield and in post-conflict humanitarian demining. This detector is engineered to detect minimum-metal content mines in all types of soils and terrain conditions, especially effective in areas with severe laterite conditions (a high content of iron or aluminum oxides). For normal soil conditions, the ATMID™ retains the popular, proven and trusted design of the AN-19/2 (U.S. Army AN/PSS-12). When used in this mode (pulse), it operates and behaves as the latest standard AN-19/2.

NEW TECHNICAL FEATURES

Digital technology and updateable algorithms compensate for ground and soil effects resulting in optimum sensitivity in all types of soil, including laterite and magnetite.

The main technical features are:

- Distinctive detection signal free of unwanted tones.
- Dependable sensitivity independent of ambient temperature and battery condition.
- Lightweight, reliable ergonomic configuration provides operator comfort throughout sustained/continuous use.
- Simple sensitivity setting and discrimination control.
- Built-in test circuitry monitors all essential system parameters, provides appropriate warnings and renders the equipment inoperable in the event of failure.

MAIN COMPONENTS

The main components are:

- Search head
- Telescopic pole
- Electronics unit
- Headphone
- Accessories

ELECTRONICS UNIT

The watertight electronic unit contains the control panel, printed circuit board, and battery compartment. The control panel includes sockets for the search head and headphone and the following features:

- Master switch
- Volume control
- Sensitivity control
- Failure warning LED

SEARCH HEAD WITH TELESCOPIC POLE

The search head contains an antenna array with integrated noise reduction circuitry. The telescopic pole consists of an inner and outer tube, arm support and adjustable handgrip, and is attached to the search head by means of a bolt designed to protect both from damage.

HEADPHONE

The single speaker headphone is designed for wear under a ballistic helmet.

ACCESSORIES

A backpack-style carry bag with individual accessory pockets contains all parts and accessories for the operation of the ATMID™. The carry bag fits in a watertight aluminum transport and storage case.



OPERATION

In the ATMID™ Continuous Wave (CW) mode, the operator continuously sweeps the search head as close to the ground as possible in a side-to-side motion across the lane, at a rate of approximately 0.5 meters per second. A distinctive signal will sound in the headphone when the head passes over a metal object. The acoustic signal changes in volume and frequency to assist in exact target location. Effective operation requires a small but essential element of training.

SUMMARY

The ATMID™ is a highly reliable and sensitive lightweight mine detector capable of detecting very small amounts of metal in any type of soil. The unit's ergonomic design enables extended use with minimum operator fatigue. It includes built-in-test circuitry for system performance monitoring and automatic malfunction warning. The detector is designed to withstand the rigors of extended field use in extreme temperatures and adverse weather conditions. These features make ATMID™ suitable for worldwide military and/or humanitarian demining operations.

UPGRADE

The ATMID™ is also available as an upgrade to the AN-19/2. The upgrade consists of a new search head and a new electronics card which, once installed, allow the detector to act either as an AN-19/2 or an ATMID™ depending on which search head is used.

ATMID™ TECHNICAL DATA

POWER SUPPLY

Type of batteries: ANSI standard size D
IEC standard size LR20

Number of batteries: four 1,5 V dry battery cells

TYPICAL OPERATING ENDURANCE

At medium temperature
with alkaline batteries: 70 hours

DETECTION RANGES

Mine with very small metal content
(Test Piece 5 CM 0.15 g): > 10 cm (4")
Typical anti-tank mine: > 50 cm (20")

ENVIRONMENTAL

Storage temperature: -55°C to +85°C
(-67°F to +185°F)

Operational temperature: -40°C to +70°C
(-40°F to +158°F)

WEIGHTS

ATMID™

All Terrain Mine Detector: 6,30 kg (13.90 lbs)

Search head with telescopic pole: 1,44 kg (3.18 lbs)

Electronics unit: 1,08 kg (2.38 lbs)

Headphone: 0,17 kg (0.38 lbs)

Carry bag: 1,41 kg (3.11 lbs)

Transport case: 2,20 kg (4.85 lbs)

DIMENSIONS

Transport case: 802 x 315 x 125 mm
(31.6" x 12.4" x 4.9")

Electronics unit: 185 x 80 x 150 mm
(7.3" x 3.2" x 5.8")

Search head: 267 mm (10.5")

Telescopic pole,
three fixed positions: 1200 mm (47.2")
1300 mm (51.2"), and
1400 mm (55.1") fully extended

Telescopic pole: 770 mm (30.3") collapsed

All data are subject to change without notice

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MINE DETECTION SYSTEMS

For further information, orders and delivery please contact one of the following offices:

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