

# Electronic Stethoscope

RE 80 M2 EST



The RE 80 M2 EST is an advanced modular electronic stethoscope designed for both EOD & IEDD applications. The equipment has the capability of amplifying acoustic vibrations which are the basis of sound waves, emanating from mechanical, electro mechanical and certain electronic fuses and timing devices.

The RE 80 M2 EST also features a Microwave Doppler Contactless Microphone which can be positioned with a useful stand off from the device being monitored. The Contactless Microphone can read the signature of a range of mechanical and electronic timers.

## SPECIFICATION

Signal Processing Unit (Main Amplifier and Power Module), featuring 4 tuning controls - input gain, frequency, band width and separate output volume for 2 monitors.

Shoulder Strap for use with SPU (not shown opposite).

12v Jumper Lead for use with Vehicle Battery as an alternative power source.

Charger/Power Supply - can be used to charge the internal battery pack, or as an alternative power supply coupled to 220v mains.

2 x Headphone/Microphone Set permitting two people to monitor microphone or sensor and to communicate with each other full duplex without interrupting monitor process.

Main Sensor - Contact Microphone for picking up and pre-amplifying acoustic vibrations. Contact Microphone can be deployed free standing, in the Multi Position Stand or with one of the following attachments:

- \* Stainless Steel G-Clamp - for attachment to appropriate devices usually UXB.
- \* Magnetic Clamp - for attachment to ferrous surface usually on UXB.
- \* Suction Clamp - can be used on a variety of surfaces including glass windows.
- \* Probe - enables the Contact Microphone to be used as a hand search instrument.

Miniature Sensor which can be taped to various enclosures usually in an IEDD role.

Bomb Probe Sensor for use with long bomb probe to monitor buried UXB.

Microwave Doppler Contactless Microphone The Contactless Microphone can be used as a hand held search instrument or can be deployed in the Multi Position Stand. It enables the Bomb Technician to monitor a wide range of timing devices at a useful stand off distance from the device being monitored. Usually deployed for Search and IEDD applications.

Multi Position Stand - enables easier deployment of either the Contact or Contactless Microphones in many EOD & IEDD applications. It enables the microphones to be deployed at almost any level and angle from ground level up to one metre high.

Multi Socket - for use when the cable reel is deployed to facilitate the connection of a Microphone/Headphone Set at a distance from the Signal Processing Unit.

3 metre Microphone Connector Cable used to connect Microphone or Sensor to the SPU or Multi Socket.

5 metre Amplifier Connector Cable for use in conjunction with cable reel.

100 metre Cable Reel - facilitates deployment of Microphone or Sensor and Headphone/Microphone Set up to 105 metres from the Signal Processing Unit.

Ruggedised Peli Transit Case fitted with equipment trays and plastazote cushioning.

Operator's Handbook

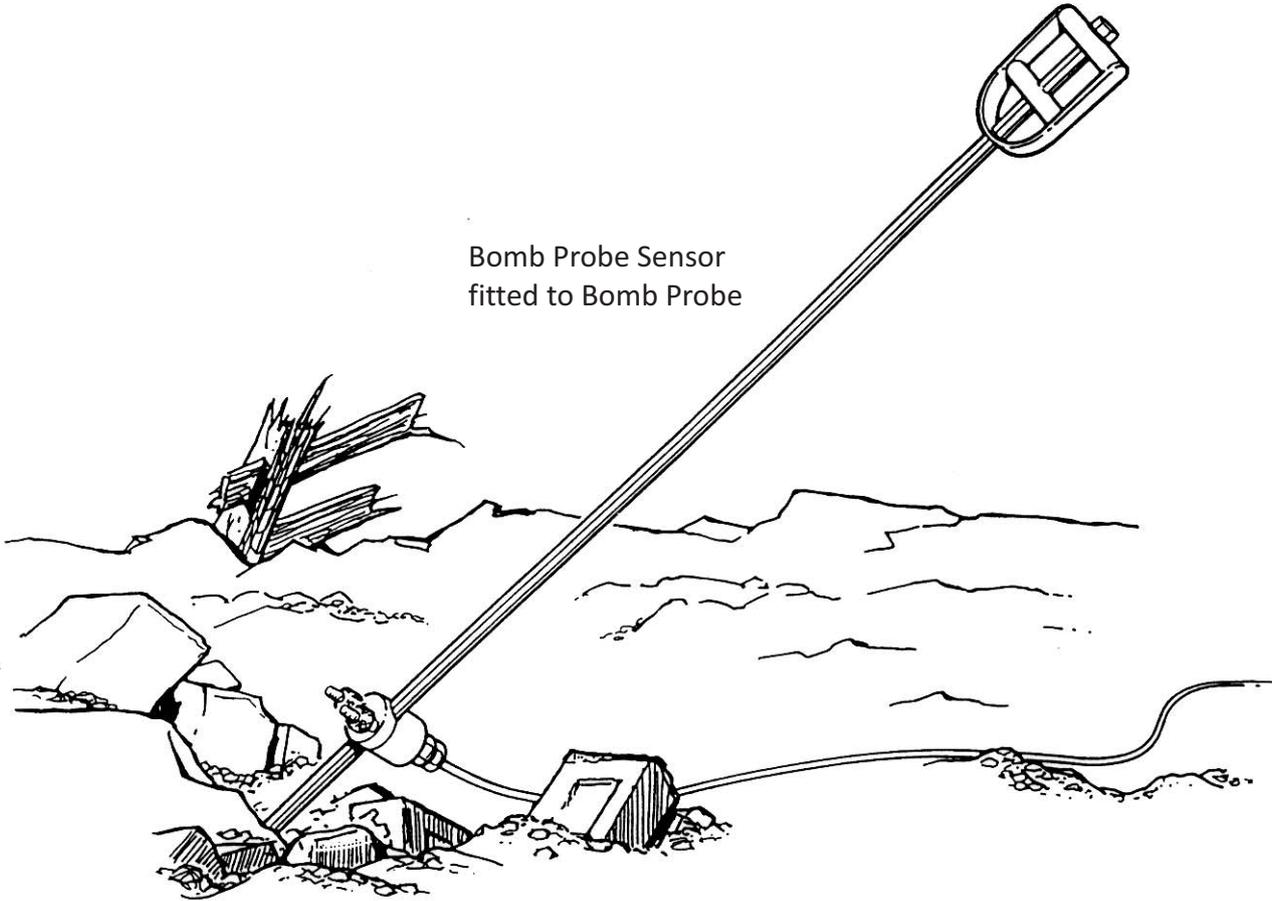
## PRINCIPAL COMPONENTS



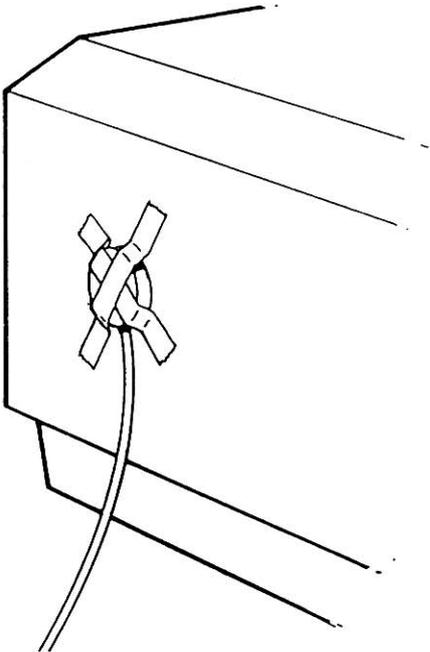
*Complete equipment excluding Transit Case and Shoulder Strap for SPU*

DEPLOYMENT OF SENSORS

Bomb Probe Sensor  
fitted to Bomb Probe

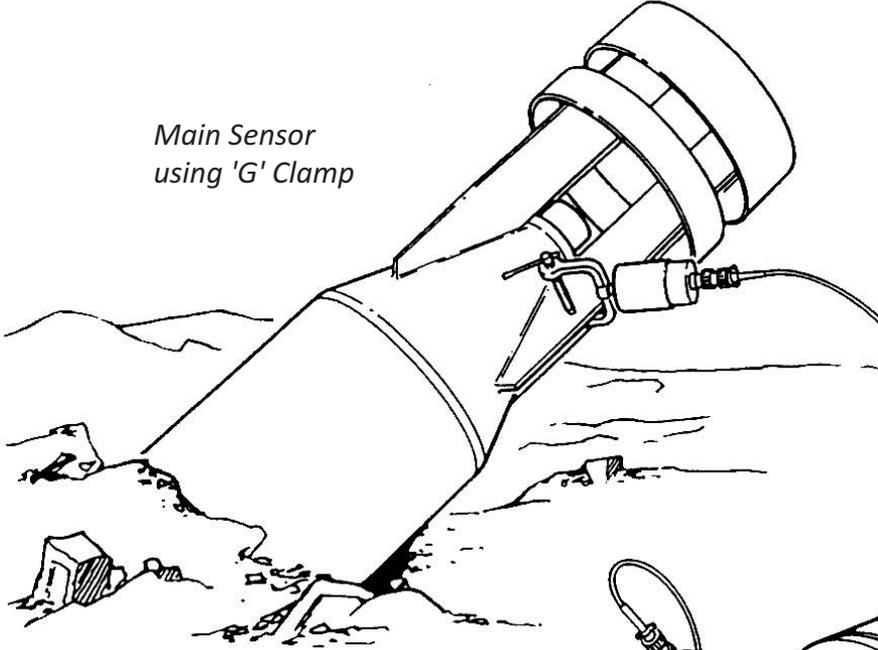


Miniature Sensor  
taped to enclosure

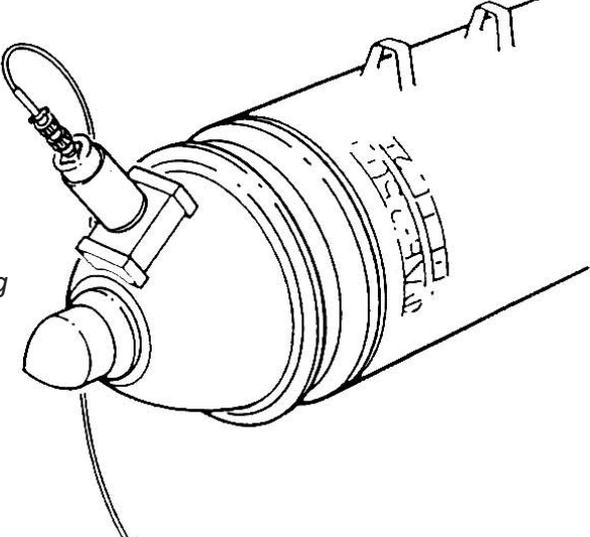


DEPLOYMENT OF SENSORS

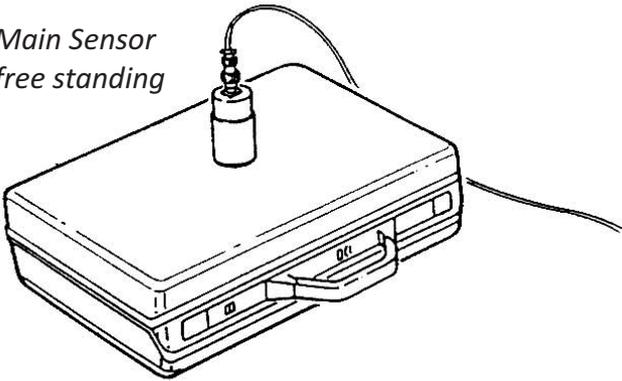
Main Sensor using 'G' Clamp



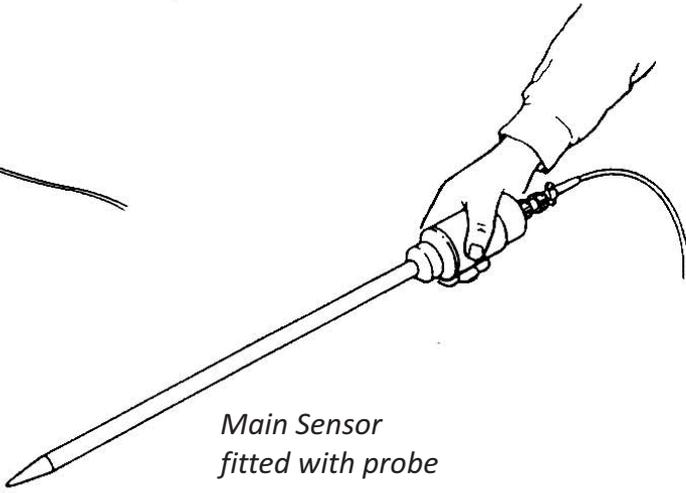
Main Sensor using Magnetic Clamp



Main Sensor free standing



Main Sensor fitted with probe



**DEPLOYMENT USING STAND**



*Main Sensor  
(Contact Microphone)*



*Main Sensor  
(Contact Microphone)*



*Contactless Microphone*

## ADDITIONAL DATA

### CONSUMABLES

Battery pack - 8 x AA size batteries in a removable cassette. AA size batteries are readily available on a worldwide basis. Batteries can be standard zinc carbon, alkaline or rechargeable NiCad. Equipment is supplied with one set of rechargeable NiCad batteries.

### WEIGHT

Transit Case packed with all items of equipment: 34 kgs

### DIMENSIONS

Transit Case: L800 x W530 x H300 mm

### MATERIALS & FINISH

The enclosures of the SPU, Charger/Power Supply, Sensors, Contactless Microphone and Multi Socket are machined from aluminium which is then anodised black. Stand is also aluminium anodised black. Cable Reel is painted NATO green.

Enclosures of the SPU, Charger/Power Supply, Sensors, Contactless Microphone and Multi Socket are IP65 rated.

NSN 1385-99-252-8077

RE80M2EST:Iss2:Nov07



Part of the Chemring Group

#### © Chemring Group PLC

The information in this document is the property of Chemring Group PLC and may not be copied or communicated to a third party or used for any purpose other than that for which it is supplied without the express written consent of Chemring Group PLC. This information is given in good faith based upon the latest information available to Chemring Group PLC; no warranty or representation is given concerning such information, which must not be taken as establishing any contractual or other commitment binding upon Chemring Group PLC or any of its subsidiary or associated companies.



Chemring EOD Limited  
(formerly Richmond EEI Ltd)  
Armtec Estate,  
North Lopham,  
Norfolk, IP22 2LR, UK  
Tel: +44(0)1379 686800  
Fax: +44(0)1379 686888

For all enquiries email: [sales@chemringeod.com](mailto:sales@chemringeod.com)

[www.chemringeod.com](http://www.chemringeod.com)

Chemring EOD Limited  
(formerly BDL Systems Ltd)  
Ordnance House, Blackhill Rd,  
Holton Heath, Poole,  
Dorset, BH16 6LW, UK  
Tel: +44(0)1202 628155  
Fax: +44(0)1202 620182