



DC VOLTAGE GRADIENT TECHNOLOGY & SUPPLY LTD

Design, Manufacturer and
Exporter to 71 Countries
of Buried Pipeline
Inspection Equipment.
35 Years Experience in
DCVG Technology

**MARKET LEADERS IN ECDA SURVEY EQUIPMENT + SOFTWARE +
CATHODIC PROTECTION RESEARCH**

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Technical Datasheet

Basic DCVG Set Constituents

Analogue DCVG Survey Meter

Cat. No.: L003

- ❖ Specialized Analogue DCVG meter for locating coating faults and determining the corrosion status of the coating fault.
- ❖ Input Impedance: 1 meg ohm
- ❖ 300ms full scale deflection.
- ❖ Ranges: 10mV to 4V
- ❖ Sensitivity: On 10mV range calibrated to + and -5mV from centre scale position.
- ❖ Quantity: 1x



Analogue DCVG Meter with Harness

Probe Handle: Bias

Cat. No.: L004

- ❖ Bias Probe Handle used with the Traditional Analogue DCVG Survey Meter.
- ❖ Bias probe handle used for biasing away any DC influence and for adjusting analogue meter movement to ensure that both ends of the pulse are viewable on the meter screen.
- ❖ Single pole 3 mm connection socket point for right hand and left-hand connection leads to connect bias probe handle/reference probe to DCVG meter.
- ❖ Small voltage range knob to select the range according to range selected on analogue DCVG meter. Increasing to bias in a clockwise fashion from off position.
- ❖ Large biasing knob used to bias the analogue DCVG meter pulse which works in conjunction with the small voltage range switch to ensure analogue pulsing DCVG meter needle is viewable on the meter scale.
- ❖ At bottom of bias probe handle is a brass threaded socket that allows the copper/copper sulphate reference probe to be screwed into the bias probe handle to make electrical connection.
- ❖ Battery non-changeable without sending back to DCVG Ltd but rechargeable and consists of a 1.2V size AA nickel cadmium battery.
- ❖ On reverse side of bias probe handle is a figure of 8 battery charging socket which is used to charge the bias probe handle with the battery charger supplied with the full DCVG survey kit.
- ❖ Also next to Figure 8 charging socket is a LED light that glows red when the bias probe handle is being charged.
- ❖ Recommend to charge bias probe handles every night if carrying out a long survey.
- ❖ Quantity: 2x



Bias Probe Handles

120/240V Battery Charger

Cat. No.: L004

- ❖ Battery charger comes in small black plastic box with a lead out either end.
- ❖ At rear of battery charger is cable for connection to mains electricity.
- ❖ At other end is black panel with the mains voltage range switch, 120 or 240V AC selection.
- ❖ Also a one ampere fuse for protection and red LED charging light.
- ❖ Low voltage cable at front of black panel that has a two pin plug to connecting to Interrupter for charging.
- ❖ Quantity: 1x



120/240V Batter Charger

3-Way Battery Charger Adaptor

Cat. No.: L013

- ❖ Used to charge multiple items of equipment (up to three items) at a time when plugged into the battery charger. Figure of eight socket is sited on the bottom side of the small black casing for which the battery charger must be plugged into to charge three items at a time. Three Sheathed cables with figure of eight sockets on each end situated on the top of the small black casing, which connects to items in the set to be charged.

- ❖ Quantity: 1x



3-Way Battery Charger Adaptor

Lead, Right Hand Connection

Cat. No.: L006

- ❖ 1 metre long shielded cable fitted with a 3-pin connection and banana plug for connection of bias probe handle or single connector / reference probe to DCVG analogue meter.
- ❖ Only connects right-hand bias handle or single connector / reference probe to right-hand side of the DCVG analogue meter.
- ❖ Quantity: 1x

Lead, Left Hand Connection

Cat. No.: L007

- ❖ 1 metre long shielded cable fitted with a 3-pin connection and banana plug for connection bias probe handle or single connector / reference probe to DCVG analogue meter.
- ❖ Only connects left-hand bias handle or left-hand single connector handle/reference probe to left hand-side of the DCVG analogue meter.
- ❖ Quantity: 1x

Connection leads



LH & RH Quantum To Probe Handles Connection Leads
(also used for DCVG meter to handles)

Wooden Probe Tip

Cat. No.: L010-S

- ❖ Standard wooden probe tip made from hardwood, oak. Used in the Reference Probe to make contact with the survey area.
- ❖ Quantity: 4x



Wooden Probe Tip

Probe Tip Holder

Cat. No.: L008

- ❖ Nylon Probe Tip Holder with thread used to hold the wooden probe tip.
- ❖ Quantity: 2x



Probe Tip Holder

PTFE Sealing Tap

Cat. No.: L011

- ❖ PTFE tape consists of a thread seal tape normally composed of a film tape that is waterproof.
- ❖ Used to make a tight waterproof seal between the wooden probe tip and the probe tip holder.
- ❖ Quantity: 1x



PTFE Sealing Tape

Probe Copper Sulphate : Reference Probe For DCVG

Cat. No.: L005

- ❖ 1 metre Copper/Copper Sulphate Reference Probes made from hollow 100% copper tubing.
- ❖ Black Heat shrink applied to copper tubing.
- ❖ Black nylon top cap placed on top of stainless-steel thread for connection to Bias Probe Handle or Single Connector Handle.
- ❖ Probe tip holder along with a nylon washer screwed onto bottom copper thread and wooden probe tip inserted with PTFE tape to ensure a tight seal.
- ❖ Copper/Copper Sulphate Reference Probe filled with 1-5% copper/copper sulphate solution prior to a DCVG survey and clean it out at the end of the survey.
- ❖ Quantity: 2x



Reference Probe For DCVG