



# DC VOLTAGE GRADIENT TECHNOLOGY & SUPPLY LTD

**GLOBAL LEADERS IN DCVG / CIPS EQUIPMENT ECDA SURVEY SOFTWARE & CATHODIC PROTECTION RESEARCH**

Greenbank House,  
Swan Lane, Hindley Green  
Wigan WN2 4AR  
United Kingdom

Tel: +44 (0)1942 522 180  
Fax: +44 (0)1942 522 179  
E-Mail: [dcvg@dcvg.com](mailto:dcvg@dcvg.com)  
Web Page: [www.dcvg.com](http://www.dcvg.com)

## DCVG EQUIPMENT SPECIFICATION

| ITEM                               | DCVG Meter - DCVG Ltd   |
|------------------------------------|---|
| Certificate Of Origin Issued       | Yes   |
| Country of Origin                  | United Kingdom  |
| Free Technical Support             | Unlimited   |
| Equipment Guarantee                | 12 Months   |
| Repair & Calibration Service       | UK  |
| Spares Availability                | UK  |
| Experience of Existing People      | 33 Years  |
| DCVG Survey Meter Colour           | Red   |
| Case                               | Moulded Plastic   |
| Meter Movement                     | Special Design to ON/OFF Pulse Sequence 0.45/0.8 sec.                   |
| Meter Input Impedance              | 1 meg ohm   |
| Meter Response                     | 300 milli-seconds Full Scale  |
| Needle Overshoot                   | Minimal as Residence Time<br>150 milli-seconds                          |
| Battery                            | Nickel Cadmium 12V Multicell 1.2 A Hrs                                  |
| Ranges                             | 10, 25,50,100, 250,1000, 2500, 4000 mV                                  |
| Individual Range Calibration       | All Ranges  |
| Calibration Certificate            | Yes   |
| Sensitivity                        | Example. On 10mV Range Calibrate + and – 5mV from Centre Scale Position |
| Sensitivity                        | 2 x that of PCS 2000  |
| Automatic Centre Zero Bias         | No. Manual System to give Maximum Flexibility                           |
| Battery Check Facility             | Yes   |
| Battery Charging LED Indicator     | Yes Red Coloured  |
| Battery Life between Charging      | 7 days  |
| Circuit Board                      | Small PTH Epoxy Potted  |
| Wire Looms                         | All Loomed  |
| Straps                             | Waist and Neck Leather  |
| Weight                             | 3 lb, 1.5 Kg  |
| Size                               | 24 cm x 13 cm x 5 cm (1560 cm <sup>3</sup> ) (95 cuins)                 |
| Weather                            | Protect Input terminals from Rain                                       |
| Minimum Survey DCVG Signal         | 100 mV  |
| Maximum Survey DCVG Signal         | 2500 mV   |
| DCVG Survey T/R Interrupter Colour | Red   |
| Switching Device                   | Mosfet Switch   |
| ON /OFF Cycle                      | 0.45 sec ON , 0.8 sec OFF   |
| Heat Sink                          | Yes Black Aluminium   |
| Capacity of Switching Device       | 180A 200V DC  |



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| ITEM  | DCVG Meter - DCVG Ltd                    |
|---|--|
| Recommended Operation (re Anodic & Cathodic Spikes)     | 50 to 80 Amps                            |
| Is Bigger Interrupter Available                         | Yes 360 A 200V DC                        |
| Is Satellite Version Available                          | Yes, Capacities as Above                 |
| Battery   | 12 Volt Lead Acid 4.5 A Hr               |
| Battery Check Facility                                  | No                                       |
| Battery Charging LED Indicator                          | Yes                                      |
| Battery Life between Charging                           | 7 Days                                   |
| External Battery Source Connection (to 12V Car Battery) | Yes                                      |
| External Bat Charger Operation                          | Yes                                      |
| Circuit Board   | Small PTH Potted in Epoxy                |
| Overload Fuse   | Yes 100 Amp                              |
| Operation ON/OFF LED                                    | Yes                                      |
| Wire Looms  | Yes                                      |
| Can be used to Switch AC                                | No Never recommended                     |
| Weather   | Not Affected by Rain                     |
| Probe Handles   | 2 Separate as Bias Control               |
| Right Hand Connection Lead                              | 2 Supplied Interchangeable Single Cable  |
| Left Hand Connection Lead                               | 2 Supplied-Interchangeable Single Cable  |
| Probe Electrodes  | One piece                                |
| Number of Electrodes                                    | Two                                      |
| Materials of Construction                               | Metallic                                 |
| Strength Reliability in Use                             | Strong - Does Not Break                  |
| Electrolyte Used  | 5% Copper Sulfate                        |
| Electrode Watering Facility                             | No. Recommend Using a Watering Truck     |
| Probe Tip Holders                                       | 5 Supplied-Plastic                       |
| Probe Tip Washers                                       | 5 Supplied                               |
| Probe Tips  | 4 Supplied-Wooden                        |
| PTFE Sealing Tape                                       | 1 Reel to Seal Tips in Holders           |
| 120/240 Volt Battery Charger                            | 1 x 18 Volts Output AC                   |
| Battery Charger Connection Lead for other items         | To Charge 3 Items at a Time              |
| Probe Filler Bottle                                     | 250 mL                                   |
| Bottle of Copper Sulphate Crystals                      | 500g Plastic Bottle                      |
| Equipment Carry Case                                    | Peli Yellow Colour                       |
| Equipment Carry Case Insert                             | Moulded Foam                             |
| Insert Cover  | Moulded Foam                             |
| Probe Carry Case  | Water Proof Plastic Insert in Vinyl Case |
| Users Manual  | Yes                                      |
| Training Video/CD                                       | No                                       |



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| ITEM                            | DCVG Meter - DCVG Ltd |
|---------------------------------|-----------------------|
| Training Courses                | Yes as Extra          |
| Training Accreditation          | Yes – 4 Levels,       |
| Method Statement                | Yes                   |
| Software for DCVG               | Yes Extra             |
| Software for Combined DCVG/CIPS | Yes Extra             |
| ECDA Software                   | Yes Extra             |

All DCVG Ltd products are backed by 33 years experience in DCVG Inspection Technology of many pipelines around the world. No other DCVG instrument supply company has this depth of experience in DCVG Technology.

Also no limit on free internet and phone technical support to those who buy DCVG Ltd equipment.



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## COMPONENTS THAT MAKE UP A STANDARD SET OF DCVG EQUIPMENT

| ITEM  | DCVG Meter - DCVG Ltd |
|---|-----------------------|
| DCVG Survey Meter   | one                   |
| Survey T/R Interrupter  | one                   |
| Probe Handle  | two                   |
| Copper Sulphate Reference Probe                               | two                   |
| Right Hand Connection Lead                                    | one                   |
| Left Hand Connection Lead                                     | one                   |
| Reference Probe Tip Holder                                    | two                   |
| Probe Tip Washer  | four                  |
| Wooden Probe Tip  | four                  |
| PTFE Sealing Tape   | one                   |
| 120/240 Volt Battery Charger                                  | one                   |
| 3-Way Adaptor Lead - Battery Charger Multiple Connection Lead | one                   |
| Probe Filler Bottle   | one                   |
| 500g Copper Sulphate Crystal                                  | one                   |
| Equipment Carry Case  | one                   |
| Probe Carry Case  | one                   |
| Users Manual  | two                   |
| Marker Flags  | none                  |
| Training Video  | See Courses           |
| Back Pack for Water   | None – But can supply |
| Free Technical Support  | yes                   |

