



OPERATING
INSTRUCTIONS
SPY® DC POCKET
JEEP METER
MODEL DCPJM

WELCOME

Thank you for purchasing the SPY® Model DCPJM DC Pocket JeepMeter.

Pipeline Inspection Company and our SPY® brand of Coating Inspection, JeepMeter and Pig Tracking Equipment has been serving companies all over the world for over 60 years. With the purchase of this high precision instrument you can now enjoy access to worldwide service and support only SPY® and our vast Distributor network can offer.

For more information about SPY® brand equipment please visit our website at spyinspect.com.



The SPY® Model DCPJM DC Pocket JeepMeter meets the Electromagnetic Compatibility and Low Voltage Directive. This product is a Class B, Group 1 ISM equipment according to CISPR 11. Group 1 ISM product: A product in which there is intentionally generated and/or used conductively coupled radio-frequency energy which is necessary for the internal functioning of the equipment itself. Class B products are suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings used for domestic purpose.

SPY is a registered trademark of Pipeline Inspection Company, Houston, Texas 77055, United States.

A copy of this Operating Instructions Manual can be downloaded on our website at spyinspect.com.

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UNIT CALIBRATION

As the operator of this unit you require accurate, safe, and reliable equipment to perform coating inspections at the proper output voltage.

Prior to leaving our manufacturing facility Pipeline Inspection Co. certifies that SPY® Model DCPJM DC Pocket JeepMeter (voltmeter) has been calibrated and demonstrates an accuracy of (+/- 5%).

Your unit comes with a **Factory Calibration Certificate** and a **Factory Authorized Calibration Decal** applied to the bottom of the unit both with the date your unit was calibrated.

Our units do not tend to drift but it is recommended that this unit be calibrated at least once per year or more frequently based on heavy usage. **Recalibration of our equipment should be performed ONLY at a SPY® Authorized Service Center due to the unique calibration process, test equipment utilized and properly trained SPY® technicians.**

We DO NOT recommend using any other calibration service other than a SPY® Authorized Service Center; using an outside service with technicians not trained to work on SPY® brand equipment could damage the unit and if the enclosure is opened will void the warranty.

When calibration is needed please return your unit to a SPY® Authorized Service Center or SPY® manufacturing facility located at:

Pipeline Inspection Company
Attention: Calibration
1919 Antoine Drive
Houston, Texas 77055

Please include: Company Name and Contact Information. For a complete list of Authorized Service Centers please visit our website at spyinspect.com. If a copy of the Calibration Certificate on file is needed it may be obtained by emailing a request to sales@spyinspect.com.

PRINCIPLES OF OPERATION

The SPY® Model DCPJM DC Pocket JeepMeter (voltmeter) is an instrument designed to provide accurate and reliable measuring of DC voltage.

DC POCKET JEEPMETER OVERVIEW

The DC Pocket JeepMeter is designed to accurately measure the high voltage output voltage of Direct Current (DC) Only Holiday Detector such as our model 780 Portable Holiday Detectors or our 115 In-Plant Holiday Detector.

The SPY® Model DCPJM DC Pocket JeepMeter provides the ultimate in convenience and versatility.

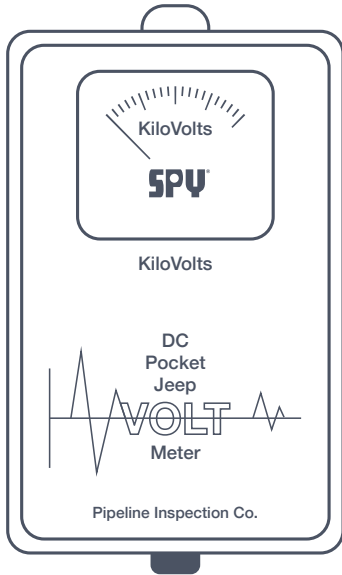
The SPY® Model DCPJM enables the operator to measure Direct Current (DC Only) up to 5 kV.



- 1 High Voltage DC Input Terminal
- 2 Output Voltage Analog Display
- 3 Ground Input Terminal

- 4 Ground Cable
- 5 High Voltage Cable

USER SAFETY



CAUTION! This meter is used to measure low energy high voltage. The operator may be subject to electrical shock if the meter is not properly grounded and/or operated in accordance with the instructions and procedures described within these operating instructions.

TECHNICAL SPECIFICATIONS

| MODEL | DC POCKET JEEPMETER |
|---|----------------------------|
| Measurement Type | DC |
| Voltage Range | 1-5 kV |
| Measurement Accuracy | ±5% @ 75 deg F |
| Display Type | Analog |
| Battery | None |
| Unit Weight (w/ battery only) | 0.36 |
| Unit Dimensions (L x W x H) | 6" x 3.5" x 1.75" |
| Factory Warranty | 12 Month |
| Domestic/International Standards Unit Complies With | CE |

TO START DC POCKET JEEPMETER OPERATIONS



CAUTION! This meter is used to measure low energy high voltage. Operator may be subject to electrical shock if meter is not properly grounded and/or operated in accordance with the instructions and procedures prescribed below.

TO START OPERATIONS – THIS METER REQUIRES NO BATTERIES. IT OBTAINS ITS ENERGY FROM THE VOLTAGE OF THE HOLIDAY DETECTOR BEING MEASURED.

STEP 1: With the holiday detector turned OFF, connect the high voltage cable (red cable) to the red high voltage DC input terminal on top of the DCPJM and then connect the other end of the high voltage cable (alligator clip) to the voltage output or electrode of the holiday detector.

STEP 2: Connect the ground cable (black cable) to the black ground input terminal on bottom of the DCPJM and then attach the other end (alligator clip) to the bare metal of the pipe. This takes into account all ground path losses which may vary due to soil and moisture conditions and measures actual working voltage of the detector.

NOTE: The DCPJM ground may be connected to the detector ground for measuring detector output voltage only. This does not take into consideration ground path loss.

STEP 3: AFTER determining the voltage reading, turn OFF detector and disconnect DCPJM.



CAUTION! DO NOT TOUCH THE ELECTRODE OR HIGH VOLTAGE CABLE WHEN THE DETECTOR IS ON.

NOTE: This is an accurate, dependable meter, which should be kept in its case and in a cool, dry place when not in use. Extreme heat or moisture can cause damage or false readings.

Long life and reliability is only warranted if the instrument is properly handled, cared for and operated in accordance with the procedures as prescribed by Pipeline Inspection Company.

MAINTENANCE & REPAIR

If maintained the SPY® Model DCPJM DC Pocket JeepMeter will offer you years of dependable operation. Regular care and maintenance of the unit is a requirement of good quality preventative maintenance practices.



WARNING! This voltmeter does not contain any user-serviceable parts; your warranty will be voided if the SPY® unit is opened by anyone other than a SPY® Authorized Service Center or SPY® manufacturing facility.

In the event the unit fails to operate properly please return your unit to a SPY® Authorized Service Center or SPY® manufacturing facility located at:

Pipeline Inspection Company
Attention: Repair
1919 Antoine Drive
Houston, Texas 77055

Please include: Company name, contact information and a short description of the problem with the unit. For a complete list of Authorized Service Centers please visit our website at spyinspect.com.

WARRANTY

Pipeline Inspection Company, hereafter referred to as (SPY®) warrants that SPY® Model DCPJM DC Pocket JeepMeter shall, under normal use and service, be free from defects in material and workmanship. SPY®'s entire warranty obligation shall be limited to, at SPY®'s option, the repair or replacement free of charge to the buyer of any defective equipment or parts thereof which prove to be defective in material and workmanship under normal use and service.

Claims for defective parts must be made in writing within three (3) months after shipment of the equipment from the works of SPY®. Fast wearing and consumable parts including, but not limited to, electrodes and ground cables, are expressly excluded from the warranty. SPY® shall have the option to require return of a claimed defective part to SPY®'s manufacturing facility in the U.S.A., freight prepaid by buyer for examination to establish buyer's claim.

Except with SPY®'s prior written approval, SPY® shall not be liable (a) for the cost of repairs, alterations or replacements or any expense connected therewith made or incurred by the buyer or its designers, or (b) for defects resulting from alterations or repairs made by others than SPY® or its approved representatives.

SPY® shall not be liable for damages, including but not limited to direct, special, indirect or consequential, resulting from the handling, or use, whether alone or in combination with other products, or any SPY® equipment or third party designed or manufactured equipment, including without limitation, any loss or damage sustained or caused by the operation and use of the equipment which is improperly operated or its successful operation is impaired by natural elements after its delivery to the buyer.

The foregoing warranty is exclusive and in lieu of all other warranties whether written, oral or implied (including without limitation, any warranty of merchantability or fitness for purpose).

RELATED EQUIPMENT



SPY® MODEL JM
JEEPMETER



SPY® MODEL PJM
POCKET JEEPMETER

Please call our office at (713) 681-5837 or email us at sales@spyinspect.com for more product details or to place an order.

The logo for SPY Pipeline Inspection Company features the letters 'SPY' in a bold, orange, sans-serif font. A registered trademark symbol (®) is positioned to the upper right of the 'Y'. The background of the entire page is dark gray with a faint, repeating pattern of a grid and stylized pipe lines.

PIPELINE INSPECTION COMPANY

SPYINSPECT.COM