



PIPELINE INSPECTION COMPANY LTD.

SPV[®]



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Pipeline Inspection Co.

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In-Plant Holiday Detectors



**OPERATING
INSTRUCTIONS
SPV[®] PLANT HOLIDAY
DETECTORS
Models 115 & 125**

Safety Disclaimer

Only trained and responsible personnel should operate high voltage equipment. Display warning labels prominently prior to and during testing. In-Plant Holiday Detectors are designed to operate and maintain an electric current output well below levels which could cause injury. However, you may experience a mild shock if the test electrode or ground is touched while the equipment is activated. Wear rubber or plastic gloves to minimize potential shock. Nonconductive footwear is also recommended. Keep in mind that the shock prevention effectiveness of the rubber or plastic glove and footwear is limited to the condition of their protective surface. Make sure gloves and footwear are void of tears and holes and are in good condition.

Use of In-Plant Holiday Detectors is confined to checking for defects in insulating materials. Testing should be conducted clear of personnel not involved in the testing procedure. Personnel operating In-Plant Holiday Detectors should be aware of the safety limitations imposed by their environment at all times. Operators should have an assistant to ensure that unauthorized personnel are clear of the testing area.

Danger: Holiday detector's test voltage creates an arc or spark. Use of In-Plant Holiday Detectors in any combustible or flammable atmospheres can result in an explosion. Consult with the plant or site safety officer before proceeding with a holiday detection test in any potentially hazardous or suspect area.

EMI Disclaimer

WARNING....This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

NOTE....Holiday detectors create a spark during their normal course of operation when a defect in the pipe coating is found. Sparks cause radio interference. During the device's passive or search mode, it qualifies as a class A product.

Warranty

Pipeline Inspection Co., Ltd., hereafter referred to as (SPY®) warrants that SPY® Model 7X5/9X5/1X5 Series Holiday Detectors and Jeepmeters 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 twelve (12) 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 plant 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).

EC Declaration of Conformity

Manufacturer of Equipment:

Pipeline Inspection Co. Ltd.
1919 Antoine Houston, Texas 77055 USA
Phone: 713.681.5837
Fax: 713.681.4838
Email: sales@picltd.com

Authorized Representative in the EC Community:

Pipeline Induction Heat LTD
The Pipeline Centre Farrington Road
Rossendale Road Industrial Estate
Burnley, Lancashire BB11 5SW
England, United Kingdom
Attn: Michael Burnley

Description of Equipment:

Holiday Detectors
Models 115, 125, 135

Holiday detector devices detect the presence of defects in non-conductive coatings applied to surfaces to minimize ion flow from a conductive substrate. Holiday detection is accomplished by passing an electrode over the non-conductive coating. Sufficient voltage is generated in the electrode to cause a spark that will jump from the electrode to the substrate if a defect is found. When a defect is found a, horn sounds and a light turns on.

Harmonized Standards tested to:

EN 55011: Group 1, Class A
EN 61000-4-2: 1995
EN 61000-4-3: 1995
ENV 55024: 1996
EN 61000-4-4: 1995
EN 61000-4-5: 1995
EN 61000-4-6: 1996
EN 61000-4-11: 1994

Specifications: The products above were submitted as a group because they use common designs, components and methods of construction. Representative tests were performed on each device that would exhibit the “worst case” scenario for approval.

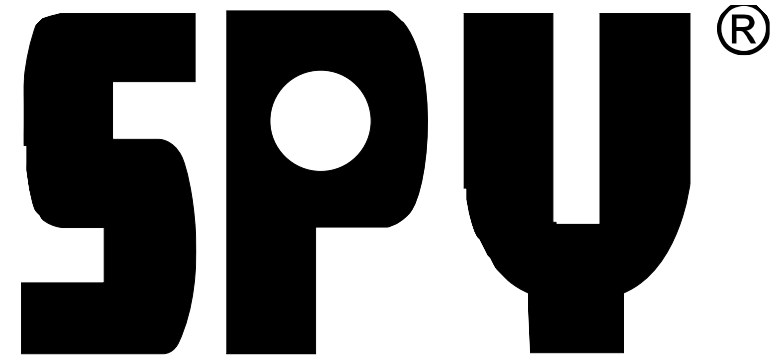


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General Information

The Model 115/125 Holiday Detector is designed for high voltage inspection of discontinuities (holidays) in protective coatings in-plant or yard coating operations. Typical applications include: inline coating plants; pipe racks or arrays; storage tanks; polyethylene or pvc film plants; or others.

The configuration and installation of In-Plant Model 115/125 Holiday Detector systems are determined by individual requirements and are normally engineered and assembled by plant or on-sight personnel, i.e., custom designed.

The Model 115/125 requires a 120-volt 50/60 Hz power source. It uses the ground (neutral) line of the 120 volt power source; therefore, it is vitally important that the 3 prong power cord plug be properly connected to a properly wired 3-wire grounding receptacle. When wired properly, there is no voltage potential between the ground and the detector case.

Installation Instructions

Although installation of the Model 115/125 depends highly upon the intended use and operational or physical layout of plant, all units require the same basic components and procedures.

Steps

- STEP 1:** Plug the unit into a 3-pronged grounded 120-volt AC plug. (If you are using 240-volt power source, a step down transformer will be required).
- STEP 2:** Connect the high voltage cable by inserting its fitting into the high voltage output. When it has gone in as far as it will go, maintain the forward pressure and twist the cable clockwise to lock it in place.
- STEP 3:** Connect the electrode to the wand or high voltage wire.

- STEP 4 :** Connect the klaxon signal horn or other 120-volt AC remote signal-making devices on the back panel as desired.
- STEP 5 :** Connect a ground wire to the pipe being inspected. It is not necessary to connect this ground wire to the detector; however, an additional ground post is provided on the rear of the detector should you desire to do so.
- STEP 6 :** Set the sensitivity switch to minimum position.

Testing and Operating

After verifying the unit is properly installed with the electrode, grounds and all other connections properly connected:

Steps

- STEP 1 :** Turn on the detector.
- STEP 2 :** Using the voltage control knob, set the high voltage output to the desired inspection voltage shown on the digital dial.
- STEP 3 :** Once the desired voltage is set, adjust the 3-position sensitivity switch to maximum and see if unit indicates jeep or signal. Adjust the sensitivity switch downward until unit stops signaling, i.e. false signal. (This compensates for the capacitance of the pipe being inspected.) The sensitivity is now properly set.
- STEP 4 :** The detector system is now ready for operation.

CAUTION! The Model 115/125 Holiday Detector system operates on high voltage and extreme precautions should be made for handling, proper connecting of electrical equipment and adequate grounding in all cases.

(Details upon request)