PORTABLE HOLIDAY DETECTORS
PIPELINE INSPECTION COMPANY offers three Portable SPY® Model Holiday Detectors that combine leading-edge circuitry in combination with our field proven accessories and electrode configurations for accurate, reliable inspection of large surfaces and pipelines.

INFINITE VOLTAGE SETTING allows you to set the voltage exactly to the level you desire for the coating you are inspecting. Not six settings, not twenty... any setting you desire over the complete range of each detector model. Whatever the pipe size, two inches through sixty inches, whatever the coating – somastic, tar, asphalt, extruded coats and tapes or thin film epoxy coatings – you have at your control the exact voltage setting required.

AUTO REGULATED VOLTAGE keeps your voltage constant! Over a range of two inch through sixty inch pipe the detector output voltage automatically adjusts under the working load to the voltage levels you set. Now you can forget compensations for pipe size, or moisture on the pipe – the detectors automatically make these adjustments.

QUICK RELEASE BATTERY easily slips into position with a snap that announces positive contact and a secure lock in position. Two batteries and a universal charger are part of the package. For continuous service, one battery is kept charging (approx. 8 hours) while the other powers the unit.

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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>780</th>
<th>785</th>
<th>790</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Type</td>
<td>DC</td>
<td>Pulse</td>
<td>Pulse</td>
</tr>
<tr>
<td>Voltage Range (kV)</td>
<td>1-5 kV</td>
<td>1-15 kV</td>
<td>5-35 kV</td>
</tr>
<tr>
<td>Voltage Output Accuracy</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
</tr>
<tr>
<td>Coating Range (Min-Max)</td>
<td>4-50 mils</td>
<td>4-150 mils</td>
<td>50-750 mils</td>
</tr>
<tr>
<td>Pulse Repetition Rate</td>
<td>N/A</td>
<td>28 Hz</td>
<td>28 Hz</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>−40°F to 148°F</td>
<td>−40°F to 148°F</td>
<td>−40°F to 148°F</td>
</tr>
<tr>
<td>Internal Volt Meter</td>
<td>YES-User Adjustable</td>
<td>YES-User Adjustable</td>
<td>YES-User Adjustable</td>
</tr>
<tr>
<td>Display Type</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
</tr>
<tr>
<td>Holiday Indicator Type</td>
<td>Audible/Visual</td>
<td>Audible/Visual</td>
<td>Audible/Visual</td>
</tr>
<tr>
<td>Power Type</td>
<td>12V Rechargeable Battery</td>
<td>12V Rechargeable Battery</td>
<td>12V Rechargeable Battery</td>
</tr>
<tr>
<td>Quick Release Battery*</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Battery charge time</td>
<td>Approx. 8 Hours</td>
<td>Approx. 8 Hours</td>
<td>Approx. 8 Hours</td>
</tr>
<tr>
<td>Unit Weight (w/ battery only)</td>
<td>7.45 lb</td>
<td>7.45 lb</td>
<td>7.45 lb</td>
</tr>
<tr>
<td>Unit Dimensions (w/o battery)</td>
<td>21.5” x 5” x 5.5” (L x W x H)</td>
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<td>21.5” x 5” x 5.5” (L x W x H)</td>
</tr>
<tr>
<td>Unit Dimensions (w/ battery)</td>
<td>21.5” x 5” x 8” (L x W x H)</td>
<td>21.5” x 5” x 8” (L x W x H)</td>
<td>21.5” x 5” x 8” (L x W x H)</td>
</tr>
</tbody>
</table>

*Battery life is dependent upon selected voltage and load applied. Typical battery life 8 hours.
MODELS 780 • 785 • 790

IMPROVED CONTROL
• Horn and light for holiday indication.
• Easy carry top handle.
• Comfortable ergonomic rear handle.
• Infinitely adjustable voltage.
• Output voltage automatically regulated.
• Quick and easy battery installation.

FAST SETUP. INTELLIGENT OPERATIONS.
• Integral Voltmeter to verify voltage setting.
• Light cycles off to indicate holiday is present.
• Louder audible alarm for heavy equipment environments.

PROVEN RELIABILITY
• Lightweight and durable construction with proven leading edge circuitry.
• Infinite specific voltage adjustments on the fly.
• Automatic compensation for moisture (780 only).

MODEL 780
1,000 – 5,000 volt range (thin film only).
4 – 50 mils.

MODEL 785
1,000 – 15,000 volt range (thin film only).
4 – 150 mils.

MODEL 790
5,000 to 35,000 volt range. 4 – 750 mils.

CARRYING / SHIPPING CASE
Molded ABS plastic construction assures secure weather-proof protection for detector and components. Parts are cushioned in a molded insert. Full-length piano-type hinge, rugged catches.

WEIGHT
Average domestic shipping weight (dependent on electrode size): 35 lbs. Export air shipping weight: about 50 lbs.

Easy Carry Top Handle
Built-In Voltmeter with Digital Readout to Verify Voltage Setting
Holiday Indicator Light
On/Off Knob
Comfortable Grip
Shoulder Strap Connection
Grounding Cable Insert
Eight Hour Battery
Quick-Release Battery

Durable, Reliable and Dependable, for decades SPY® Holiday Detectors have been built to handle the most EXTREME environments!
780 KIT INCLUDES:
2 - 12V Rechargeable Batteries
1 - 12V Charger
1 - DC Paddle
1 - 50 FT Ground Cable
1 - Electrode Wand with Spring Connector
1 - Shoulder Strap
1 - Brush Adapter Kit
1 - SPY® Screwdriver
1 - Shipping/Carrying Case
(Case Dimensions: 28” x 16” x 8”)
1 - Operating Instructions

785 & 790 KITS INCLUDE:
2 - 12V Rechargeable Batteries
1 - 12V Charger
1 - 50 FT Ground Cable
1 - Electrode Wand with Spring Connector
1 - Shoulder Strap
1 - Brush Adapter Kit
1 - SPY® Screwdriver
1 - Shipping/Carrying Case
(Case Dimensions: 28” x 16” x 8”)
1 - Operating Instructions
Custom size electrodes are always available. Contact our sales staff to discuss your specific electrode needs.

FOR SPRING ELECTRODES
the connector has a sealed ball bearing in the end to allow the electrode to roll freely.

FOR BRUSH & OTHER TYPE ELECTRODES
the connection is a simple wing nut.

* Sizes above 12” are built with wheels for support.
** Sizes above 15” are built with support wheels, sizes 12”-14” are built with Teflon guides.
*** Springs 54” and above are recommended to use a pusher wand due to potential spring sag (Part #11935)
ACCESSORIES

SPY® has all of the optional hardware and equipment you need to get the best results from your portable holiday detector.

ADAPTER FOR ELMOMETER SPRING
ITEM #13996

BRUSH ADAPTER KIT
ITEM #11934

ADAPTER FOR TINKER & RASOR SPRING
ITEM #13995

GROUND CABLE
(50 – 600 FT)
ITEMS: 12884 (50'), 11925 (100'), 13422 (160'), 13874 (200'), 13587 (300'), 13849 (400'), 13870 (500'), 13588 (600')

DC PADDLE (780 ONLY)
ITEM #11994

GROUND PAD
(FOR USE WITH 790 ONLY)
ITEMS: 12239 (3' x 1.5'), 13419 (6' x 3')

SPRING SUPPORT / PUSHER WAND (18”–72”)
ITEM #11935

GROUNDING COLLAR
(FOR USE WITH 790 ONLY)
ITEMS: 14188 (4”- 8”), 14189 (10”- 18”), 14190 (20”- 30”), 14191 (32”- 42”), 14192 (48”- 60”)

FLEX-WAND (36”–72”)
ITEM #13203

GROUNDING ROD
ITEM #14196

SPRING/BRUSH WAND ELECTRODE (36”–72”)
ITEM #11932

SPRING SPlicer
ITEM 13572

GROUNDING ROD
JEEP METERS
In order to assure the absolute highest accuracy and performance of your holiday detector, these jeep meters are designed to accurately measure output voltage of any detector.

DC / PULSE VOLTAGE METER
MODEL JM
FOR USE WITH DC & PULSE DETECTORS

PULSE ONLY VOLTAGE METER
MODEL PJM
FOR USE WITH 785 & 790 ONLY

DC ONLY VOLTAGE METER
MODEL DCPJM
FOR USE WITH 780 ONLY
WORLDWIDE AVAILABILITY
Pipeline Inspection Company has a worldwide distributor network to ensure that SPY® products are available where and when they are needed.

SEE OUR COMPLETE PRODUCT LINE AT PICLTD.COM