

# PORTABLE HOLIDAY DETECTORS



CE

**SPQ**<sup>®</sup>

PIPELINE INSPECTION COMPANY

# MODELS 780 • 785 • 790

ACCURATE, RELIABLE  
INSPECTION OF ANY  
COATING, ONSHORE  
OR OFFSHORE

**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.

## SPECIFICATIONS

MODEL	780	785	790
Voltage Type	DC	Pulse	Pulse
Voltage Range (kV)	1-5 kV	1-15 kV	5-35 kV
Voltage Output Accuracy	±5%	±5%	±5%
Coating Range (Min-Max)	4-50 mils	4-150 mils	50-750 mils
Pulse Repetition Rate	N/A	28 Hz	28 Hz
Operating Temperature	-40°F to 148°F	-40°F to 148°F	-40°F to 148°F
Internal Volt Meter	YES-User Adjustable	YES-User Adjustable	YES-User Adjustable
Display Type	LCD	LCD	LCD
Holiday Indicator Type	Audible/Visual	Audible/Visual	Audible/Visual
Power Type	12V Rechargeable Battery	12V Rechargeable Battery	12V Rechargeable Battery
Quick Release Battery*	YES	YES	YES
Battery charge time	Approx. 8 Hours	Approx. 8 Hours	Approx. 8 Hours
Unit Weight (w/ battery only)	7.45 lb	7.45 lb	7.45 lb
Unit Dimensions (w/o battery) Unit Dimensions (w/ battery)	21.5" x 5" x 5.5" (L x W x H) 21.5" x 5" x 8" (L x W x H)	21.5" x 5" x 5.5" (L x W x H) 21.5" x 5" x 8" (L x W x H)	21.5" x 5" x 5.5" (L x W x H) 21.5" x 5" x 8" (L x W x H)
Domestic/International Standards Unit Complies With	CE, NACE SP0490-2007, NACE SP0188-2006, TM0186-2002	CE, NACE SP0274-2011, NACE SP0490-2007	CE, NACE SP0274-2011

\*Battery life is dependent upon selected voltage and load applied. Typical battery life 8 hours.

# MODELS 780 • 785 • 790

Durable, Reliable and Dependable,  
for decades SPY® Holiday Detectors  
have been built to handle the most  
EXTREME environments!

## 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

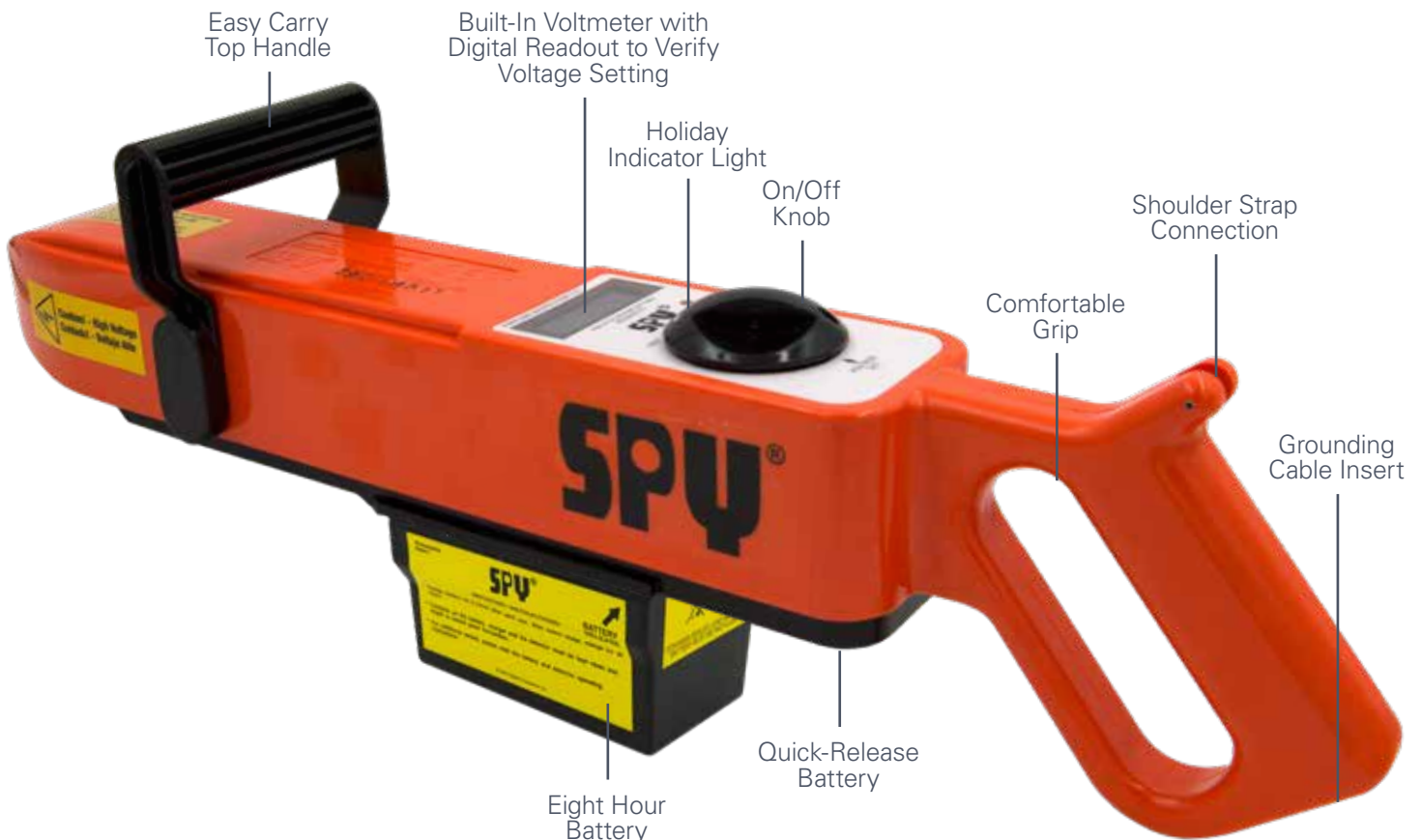
5,000 to 35,000 volt range. 4 – 750 mils.

## 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.



# 780 • 785 • 790 KITS



## 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

# ELECTRODE TYPES

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.



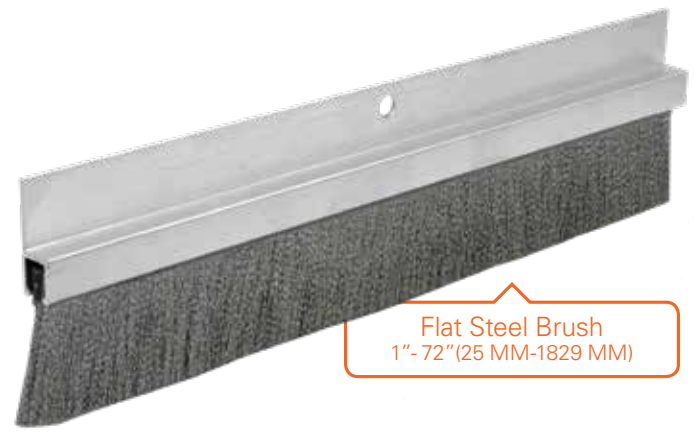
Half-Circle Brush\*  
AVAILABLE IN BRASS, STEEL  
OR NEOPRENE  
2"- 60"(50.8 MM-1524 MM)



Flat Brass Brush  
1"- 72"(25 MM-1829 MM)



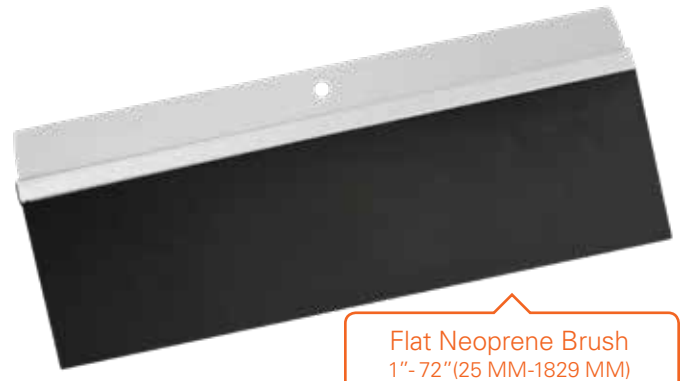
Full-Circle Brush\*  
AVAILABLE IN BRASS, STEEL  
OR NEOPRENE  
2"- 60"(50.8 MM-1524 MM)



Flat Steel Brush  
1"- 72"(25 MM-1829 MM)



Internal Brush\*\*  
AVAILABLE IN NEOPRENE  
2"-60" (50.8 MM-1524 MM)



Flat Neoprene Brush  
1"- 72"(25 MM-1829 MM)



Full-Circle Steel Spring\*\*\*  
2"- 80"(50 MM- 2032 MM)

**Custom size electrodes are always available.  
Contact our sales staff to discuss your specific  
electrode needs.**

\* 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  
ELCOMETER 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

# 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

The logo for SPY Pipeline Inspection Company, featuring the letters 'SPY' in a bold, orange, sans-serif font. A registered trademark symbol (®) is located to the upper right of the 'Y'.

**PIPELINE INSPECTION COMPANY**

A stylized world map graphic composed of a grid of small dots, rendered in a light gray color, positioned in the lower-left quadrant of the page.

**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](http://PICLTD.COM)**

PHYSICAL ADDRESS:  
1919 Antoine Dr.  
Houston, Texas 77055

MAILING ADDRESS:  
P.O. Box 55648  
Houston, Texas 77255-5648

PHONE: 713-681-5837

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