

PORTABLE HOLIDAY DETECTORS



CE

SPQ[®]

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

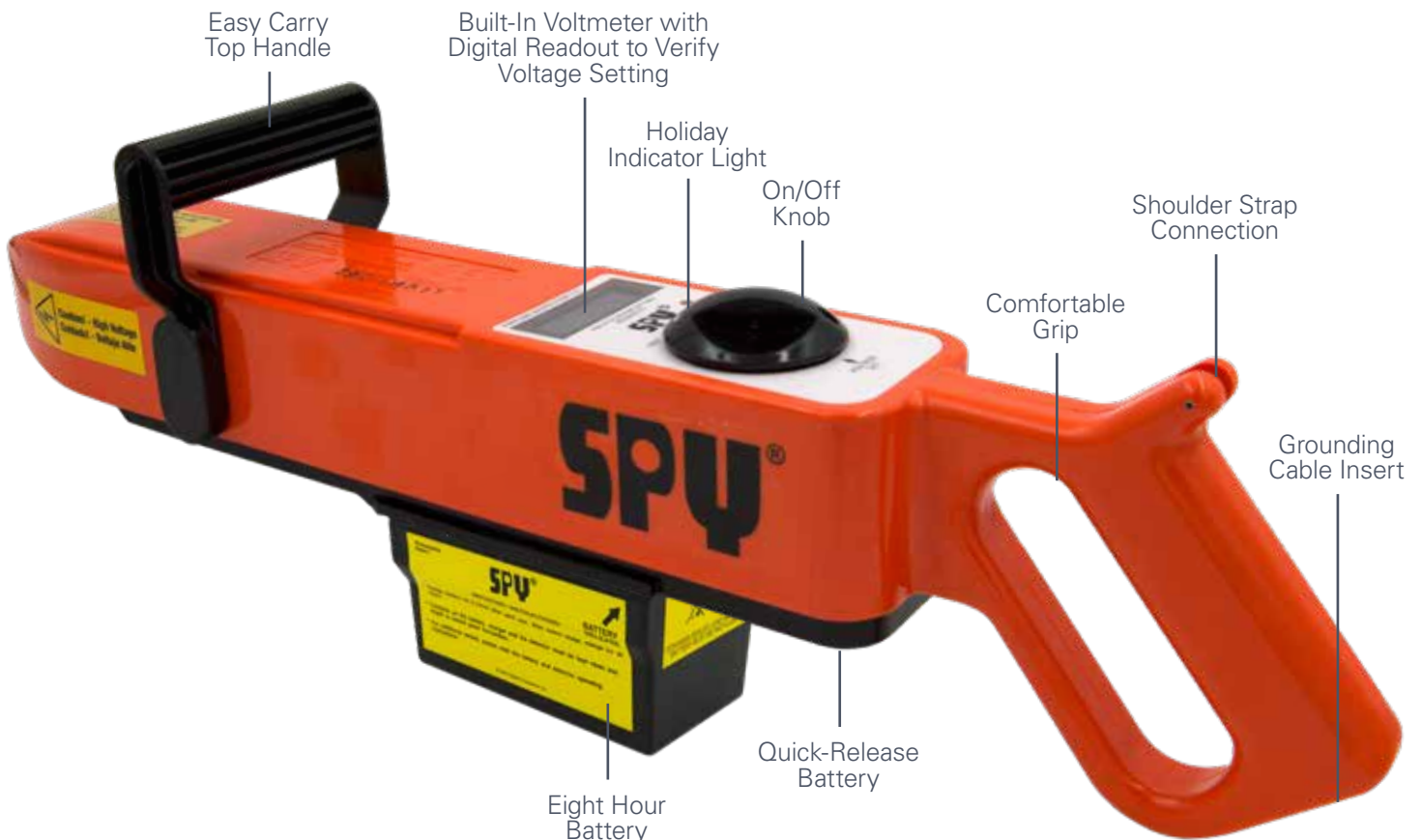
5,000 to 35,000 volt range. 4 – 750 mils.

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)



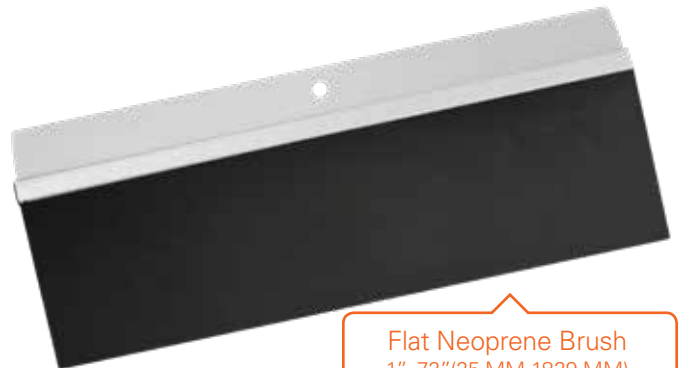
Flat Brass Brush
1" - 72" (25 MM-1829 MM)



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)



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



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



PIPELINE INSPECTION COMPANY

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

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1919 Antoine Dr.
Houston, Texas 77055

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

PHONE: 713-681-5837

FAX: 713-681-4838

SPY® WET SPONGE HOLIDAY DETECTORS



MODELS 670 & 673

SPY®
PIPELINE INSPECTION COMPANY

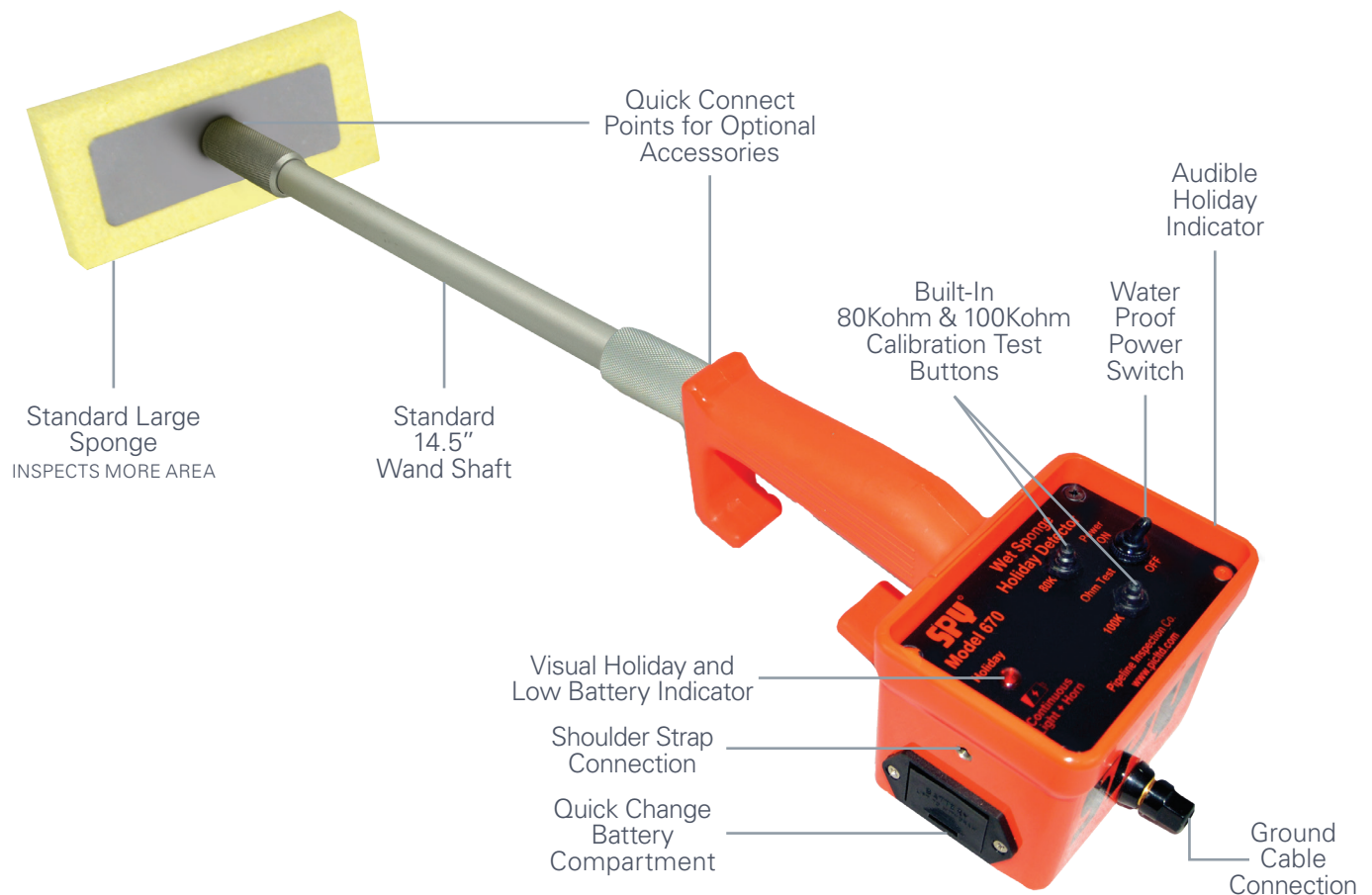
NEW SPY® PORTABLE 670 WET SPONGE HOLIDAY DETECTOR

FAST AND EASY NON-DESTRUCTIVE INSPECTION OF PAINTS, EPOXY PAINTS AND COATINGS 1-20 MILS

- NEW Ergonomic, Balanced, Lightweight Handheld Design.
- NEW Rugged, Durable Construction
- 67.5 Volt DC-Sensitive and Accurate
- NEW Quick Change Battery Compartment
- A NEW Wide Range of Quick Change Accessories
- NEW Inspection Kit w/Carrying Case (Optional)

THE NEW SPY® MODEL 670 operates on a single 9-volt alkaline battery. Unit output voltage is 67.5 volts DC. This voltage makes the detector highly sensitive and accurate. Compact and light weight with no bulky battery packs allowing for non-destructive inspection of paints, epoxy paints and coatings 1-20 Mils.

Inspect large surfaces faster and with less operator fatigue using a quick attach, easy to use roller sponge electrode (Optional Accessory).



NEW SPY® 673 WET SPONGE DETECTORS

FOR PLANT OR STATIONARY OPERATIONS

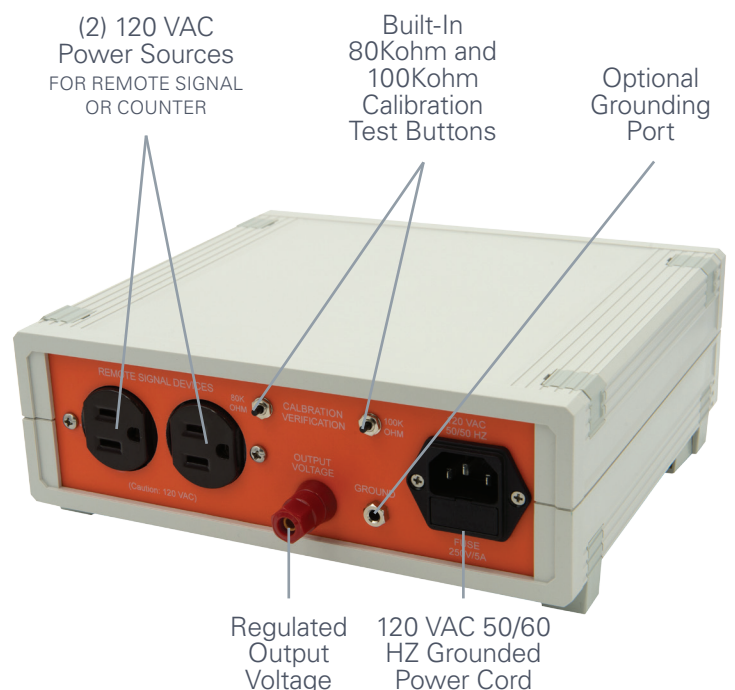
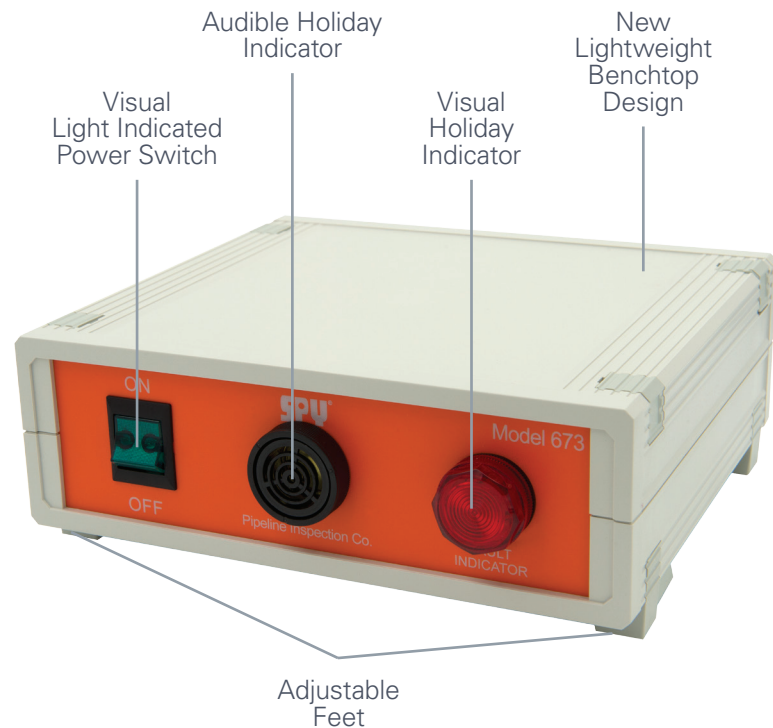
THE NEW SPY® MODEL 673 WET SPONGE DETECTOR IS HIGHLY SENSITIVE AND ACCURATE. UNIT OUTPUT VOLTAGE IS 67.5 VOLTS DC.

A uniform coating of only 1 mil of paint or other non-conductive material is sufficient to repel this small current. If a pinhole holiday is encountered, moisture from the sponge will seep in to create a free path for electrical flow, activating the horn and light indicator.

For coatings from 1 mil up to 10 mils thick, ordinary tap water can be used to wet the sponge.

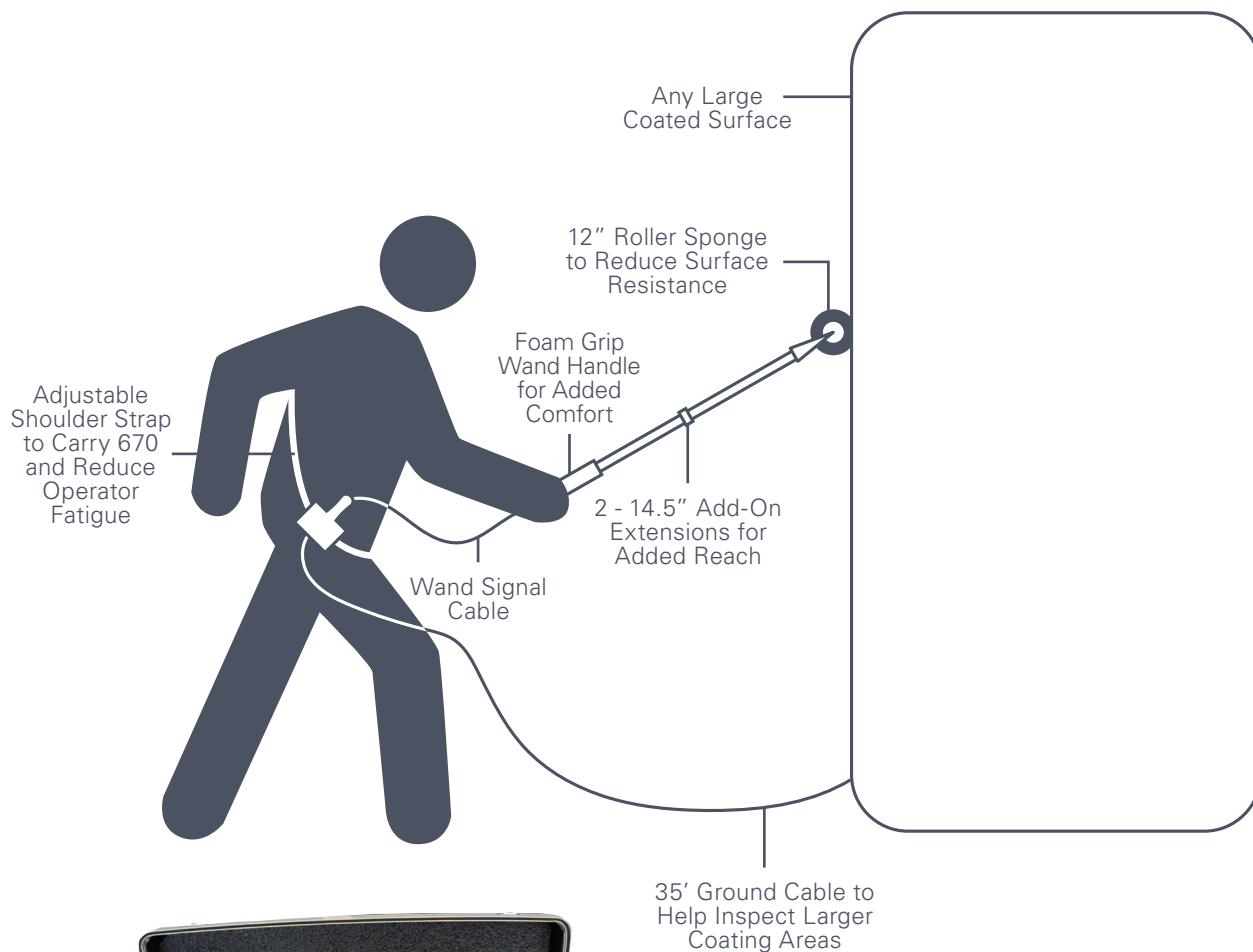
Above 10 mils, for coatings of 11 to 20 mils thickness, a non-sudsing wetting agent (such as SPY® Wetting Agent) is recommended to increase the ability for the moisture to swiftly make its way through pinholes in the thicker coating.

Inspect large surfaces faster with a quick attach, easy to use roller sponge electrode.



SPY® WET SPONGE INSPECTION KIT

OPTIONAL 670 INSPECTION KIT FOR ADDED OPERATOR COMFORT AND INSPECTION CAPABILITY



KIT INCLUDES:

- 1 - Carrying/Shipping Case
- 1 - 12" Roller Sponge Axle
- 3 - Spare Roller Sponges
- 2 - 14.5" Extension Shafts
- 1 - Spare Flat Sponge (4" x 8" x 2")

- 1 - 35 ft Ground Cable
- 1 - Foam Wand Handle
- 1 - Wand Signal Cable
- 1 - 4 oz. Wetting Agent
- 2 - 9 Volt Batteries
- 1 - Shoulder Strap

MODEL 670 & 673 ACCESSORIES



670 GROUND CABLE
(25 FT.)
ITEM #11927



SHOULDER STRAP
ITEM #10187
(670 ONLY)



16OZ BOTTLE OF
WETTING AGENT
ITEM #14001



ROLLER SPONGE WAND
ITEM #14160



4OZ BOTTLE OF
WETTING AGENT
ITEM #13985



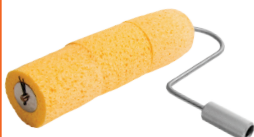
14.5" EXTENSION ROD
FOR WAND
ITEM #14162



FLAT SPONGE WAND
FOR 670
ITEM #14159



FLAT SPONGE
(SPONGE ONLY)
4" X 8" X 2"
ITEM #11322



ROLLER SPONGE AXLE
AVAILABLE IN 12", 18" & 24" SIZES



ROLLER SPONGE
REPLACEMENT PACKS
AVAILABLE IN PACKS OF 3, 5 OR 7

MODEL 670 & 673 ACCESSORIES



KLAXON HORN
ITEM #12513
(673 ONLY)



**WET SPONGE
INSPECTION KIT**
ITEM #670KIT
(DETECTOR NOT INCLUDED)



673 SPONGE WAND
ITEM #12711

KIT INCLUDES:

- | | |
|---|-------------------------|
| 1 - Carrying/Shipping Case | 1 - 35 ft Ground Cable |
| 1 - 12" Roller Sponge Axle | 1 - Foam Wand Handle |
| 3 - Spare Roller Sponges | 1 - Wand Signal Cable |
| 2 - 14.5" Extension Shafts | 1 - 4 oz. Wetting Agent |
| 1 - Spare Flat Sponge
(4" x 8" x 2") | 2 - 9 Volt Batteries |
| | 1 - Shoulder Strap |

SPECIFICATIONS

MODEL	670 	673 
Voltage Type	DC	DC
Voltage Range (kV)	67.5 Volts	67.5 Volts
Voltage Output Accuracy	±5%	±5%
Coating Range (Min-Max)	1 - 20 mils	1 - 20 mils
Operating Temperature	33°F to 148°F	33°F to 148°F
Holiday Indicator Type	Audible/Visual	Audible/Visual
Battery	9 Volt Battery	120V AC
Battery Life	Dependent Upon Load Applied (Number of Holidays)	N/A
Low Battery Indicator	Yes	120V AC (Optional 220V to 120V transformer)
Unit Weight Only Unit Weight With Battery Only	0.9 lbs 1.8 lbs	1.9 lbs
Unit Dimensions (LxWxH) With Wand	9" x 4.5" x 3.25" 25" x 4.5" x 8"	9" x 9" x 3.25"
Domestic/International Standards Unit Complies With	NACE SP0188-2006	NACE SP0188-2006
Factory Warranty	3 Month	3 Month





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