

PRO 4500 SVRTM

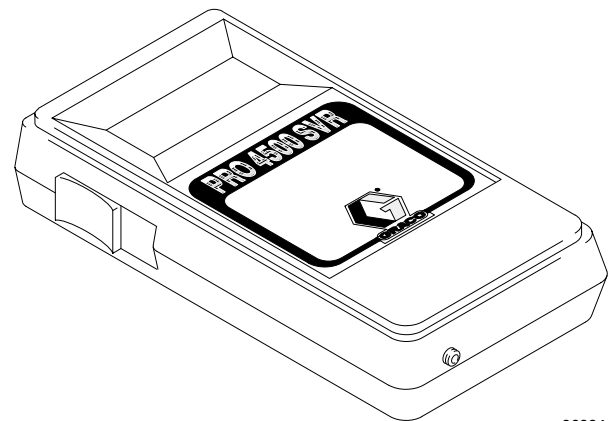
Remote Spraying Voltage Readout

Part No. 224-388, Series A

For use with the Graco PRO 4500SCTM Electrostatic Spray Gun
(See Manual 308-131)

Intrinsically Safe for use in Class I,
Division 1, Group D Hazardous Locations.
The SVR is approved for use only in the
United States and Canada.

U.S. Patent No. 5,218,305



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Operation

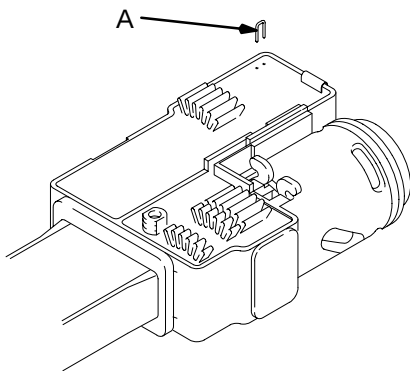
How the SVR Operates

The PRO 4500SC Spray Gun contains a radio frequency transmitter inside the power supply. When the transmitter is activated, it sends out a signal when the power cartridge is operating. This signal represents the power cartridge high voltage output. The Spraying Voltage Readout (SVR) receives the radio frequency signal and displays the power cartridge output voltage. To activate the transmitter, see the procedure below.

Activate the Radio Frequency Transmitter

Before the SVR can be used with the PRO 4500SC Electrostatic Spray Gun, the spray gun's radio frequency transmitter must be activated.

1. Remove the power supply from the spray gun as instructed in gun manual 308–131.
2. Install the jumper pin (A), supplied with the SVR, into the two hole socket on the power supply as shown in Fig. 1.



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Fig. 1

NOTE: Five jumper pins are included with the SVR unit. If additional jumper pins are needed, order part number 110–409.

3. Install the power supply into the gun as instructed in the gun manual 308–131.

Ground the SVR Operator

 WARNING	
	ELECTRIC SHOCK HAZARD To reduce the risk of electric shock, which may result from electrical discharge, the SVR operator and anyone entering the spray area must be properly grounded.

Ground personnel by having them wear:

- personal grounding straps, or
- shoes with conductive soles, such as leather. Rubber or plastic shoe soles are not conductive. Make sure that no non-conductive materials, such as paper; cardboard; or paint buildup, are on the floor that would isolate the personnel from ground.

Operation

Ground the SVR

⚠ WARNING	
	FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD
	To reduce the risk of fire, explosion, or electric shock, which may result from electrical discharge, ground the SVR with the Ground Wrist Assembly or the Ground Cable Assembly as instructed below.

SVR Ground Wrist Assembly 235–110 (See Fig. 2)

The Ground Wrist Assembly is provided with the SVR. It includes an adjustable wrist strap (B), cord (C), and male connector (D).

1. Make sure the SVR operator is properly grounded as instructed on page 2.
2. Fasten the wrist strap (B) securely to the operator's bare wrist; the wrist strap must have direct contact with the operator's skin.
3. Connect the cord (C) between the SVR and the SVR operator's wrist as shown in Fig. 2.

NOTE: The male connector (D) screws into the SVR to lock it in place. Do not pull on the connector to remove it.

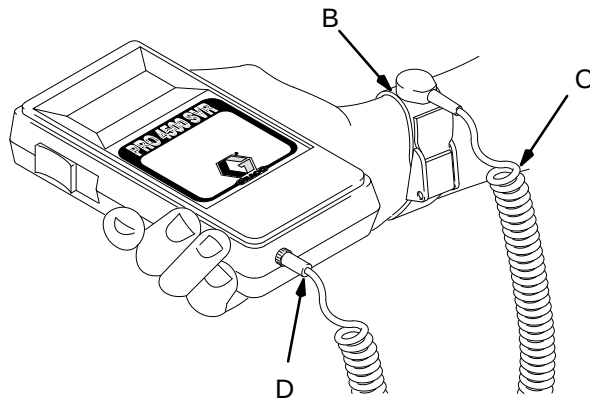


Fig. 2

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SVR Ground Cable Assembly 235–078 (See Fig. 3)

The Ground Cable Assembly must be ordered separately. It includes a cable (E), clamp (F), and male connector (H) for grounding the SVR through connection to a true earth ground.

1. Bring the SVR to within 10 feet (3 m) of the PRO 4500SC Spray Gun.
2. Connect the ground cable (E) between the SVR and a true earth ground (G) as shown in Fig. 3.

NOTE: The male connector (H) screws into the SVR to lock it in place. Do not pull on the connector to remove it.

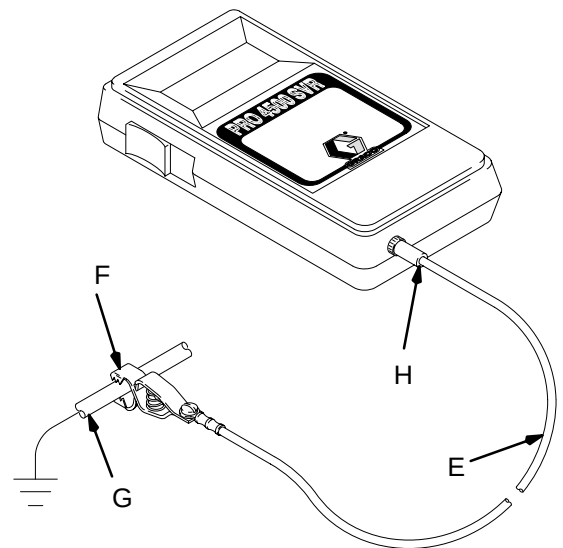


Fig. 3

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Operation

Operating the SVR

 WARNING	
	FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD To reduce the risk of fire, explosion, or electric shock, which may result from electrical discharge: • Read all instruction manuals, tags, and warning labels before operating the equipment. • The SVR operator must be properly grounded as instructed on page 2. • Ground the SVR with the Ground Wrist Assembly or the Ground Cable Assembly as instructed on page 3. • Keep the SVR at least 3 feet (0.92 m) away from the electrostatic gun electrode when the gun is operating.

NOTE:

- If there is more than one gun operating in the area, the SVR will read the nearest gun operating.
 - The transmitting range may vary with the gun and SVR orientation and if objects in the area interfere with the signal. The best results are obtained when the area between the SVR and spray gun does not have any obstructions.
1. Press the SVR switch momentarily. The display will remain active for about two minutes and then power down automatically.

2. If the transmitting range has diminished or if no reading can be obtained, the battery may need to be replaced. See **SVR Battery Replacement**, page 5.

 WARNING	
	FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD To reduce the risk of fire, explosion, or electric shock, which may result from electrical discharge, replace the SVR battery in a non-hazardous location only. Follow the SVR Battery Replacement instructions on page 5, using only the batteries recommended there.

SVR Readout

To interpret the SVR readout, see the graph on page 6.

When the spray gun is not operating or if the electrostatics are turned off, the SVR display will show “.0”.

To troubleshoot the PRO 4500SC Spray Gun using the SVR, see the gun manual 308–131.

NOTE: The SVR is for use with the Graco PRO 4500SC Spray Gun and will not read the voltage of any other spray gun.

Maintenance

Cleaning the SVR

Use a soft cloth dampened with only water or a mild alcohol solvent or mineral spirits, if needed, to clean the outside of the SVR unit.

CAUTION

To avoid permanent damage to the SVR unit, do not immerse it in any liquid.

SVR Battery Replacement



! WARNING

FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD

To reduce the risk of fire, explosion, or electric shock, which may result from electrical discharge:

- Replace the SVR battery in a non-hazardous location only.
- Use only the batteries recommended in step 3, below.

- Other than battery replacement, all SVR service must be done at an authorized service center.

1. Take the SVR to a non-hazardous location.
2. Place a small screwdriver fully into the SVR battery cover slot (H) and gently press forward to release the latch. See Fig. 4.
3. Replace the battery with a 9 volt DC Eveready® Energizer® 522 or Duracell® MN1604 alkaline battery; do not use any other brand.
4. Install the cover back on the SVR.

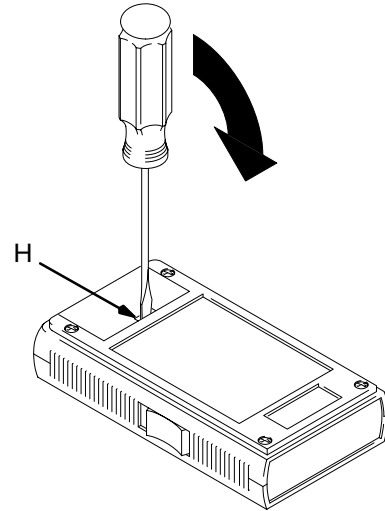


Fig. 4

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Technical Data

Size 5.91 in. x 3.19 in. x 1.18 in.
(150 mm x 81 mm x 30 mm)

Weight 7.35 oz. (210 grams)

PRO 4500SC RF Transmitter

Frequency 49.89 megahertz

Power less than 100 milliwatts

The SVR is approved for use only in the United States and Canada.

Radio Frequency Receiver Approval

FCC ID: JHI2

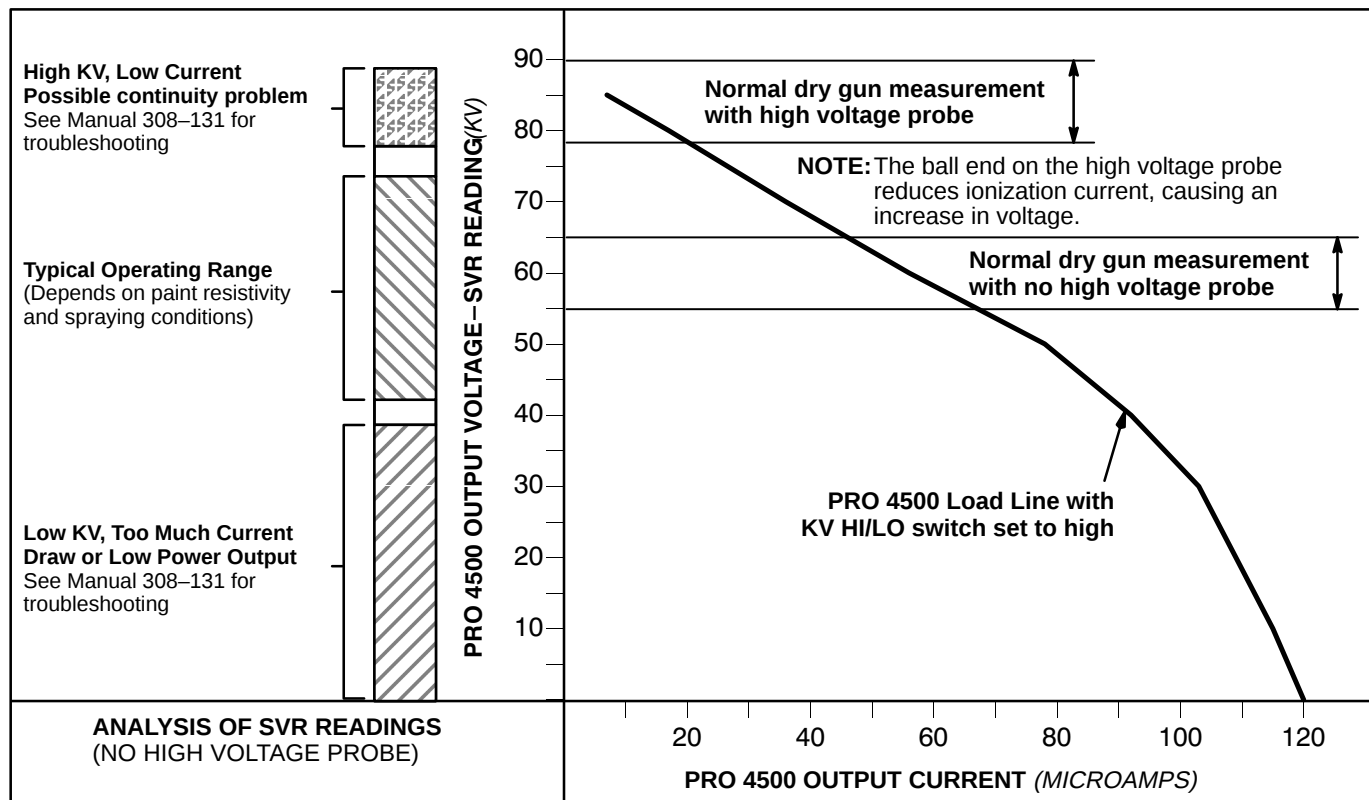
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
 2. This device must accept any interference received, including interference that may cause undesired operation.
- Changes or modification to this equipment, not expressly approved by the party responsible for compliance, could void the user's authority to operate this equipment.

This equipment complies with (DOC) GRR II 6. (4)

En conforme avec (MDC) RGR II 6. (4).

Analysis of the SVR Readout



Graco Phone Numbers

TO PLACE AN ORDER, contact your Graco distributor, or call Graco: **1-800-328-0211 Toll Free**

FOR TECHNICAL ASSISTANCE, service repair information or answers about the application of Graco equipment, call: **1-800-543-0339 Toll Free**

Sales Offices: Atlanta, Chicago, Dallas, Detroit, Los Angeles, Mt. Arlington (N.J.)
Foreign Offices: Canada; England; Korea; Switzerland; France; Germany; Hong Kong; Japan

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