Instruction Sheet

AC power battery backup

Safety information

Please read this entire document before unpacking, setting up, or operating this equipment. Pay attention to all danger and caution statements. Failure to do so could result in serious injury to the operator or damage to the equipment.

To make sure that the protection provided by this equipment is not impaired, do not use or install this equipment in any manner other than that specified in this document.

Use of hazard information



DANGER

Indicates a potentially or imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially or imminently hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation that may result in minor or moderate injury.

Notice: Indicates a situation that is not related to personal injury.

Precautionary Labels

Read all labels and tags attached to the instrument. Personal injury or damage to the instrument could occur if these are not observed.



This is the safety alert symbol. Obey all safety messages that follow this symbol to avoid potential injury. If on the instrument, refer to the instruction manual for operation or safety information.



This symbol, when noted on a product enclosure or barrier, indicates that a risk of electrical shock and/or electrocution exists.



This symbol, if noted on the product, indicates the need for protective eye wear.



Electrical equipment marked with this symbol may not be disposed of in European public disposal systems after 12 August of 2005. In conformity with European local and national regulations (EU Directive 2002/96/EC), European electrical equipment users must now return old or end-of life equipment to the Producer for disposal at no charge to the user.

Note: For return for recycling, please contact the equipment producer or supplier for instructions on how to return end-of-life equipment, producer-supplied electrical accessories, and all auxiliary items for proper disposal.

Overview

This instruction sheet describes how to install the AC Power Battery Backup.

Important Note: Only install the AC Power Battery Backup on samplers equipped with power supplies identified by item number 8754500 and ending in the letters US, EU, IL, AU or UK.

The AC Power Battery Backup (operating temperature -15 °C to 40 °C) is an enclosed 12 VDC battery designed to temporarily power a sampler when the normal AC power source has failed. The backup battery charge is restored and maintained by normal AC power supply operation.

The battery backup is available in two models:

- Item number 8757400 equipped with a 16 in. output cable for SD900 Refrigerated and SD900 Portable samplers.
- Item number 5698200 equipped with a 29 in. output cable for SD900 All Weather Refrigerated and SD900 Portable samplers.

Note: When ordered as a separate accessory, item number 5698200 comes with hardware for securing the battery backup on the All Weather Refrigerated Sampler cabinet.

The battery backup dimensions and components are shown in Figure 1.

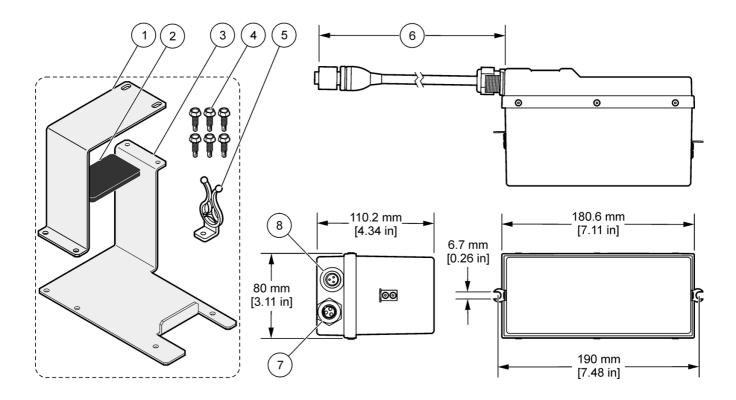


Figure 1 Battery dimensions and components

1	Bracket, clamp (5698200 only)	5	Cable twist lock
2	Foam pad (5698200 only)	6	406 mm (16 in.) (8757400) or 737 mm (29 in.) (5698200)
3	Bracket, base (5698200 only)	7	Battery backup assembly output connector
4	Bracket screws (6x) (5698200 only)	8	Battery backup assembly input receptacle

Installation procedure

To install the AC Power Battery Backup, follow the steps for the correct sampler model.

SD900 Portable Samplers using AC power supply (8754500 US, EU, IL, AU or UK)

- 1. Power down the controller.
- **2.** Disconnect the sampler power supply from its AC mains source.

Note: The controller itself is not connected to the AC mains.

- 3. Disconnect the power connector cable from the controller (Figure 2).
- **4.** Put the battery backup in a location near the controller and power supply.
- **5.** Connect the power supply output cable to the input receptacle of the battery backup (Figure 3 on page 4).
- **6.** Connect the output cable of the battery backup to the controller power connector (Figure 3 on page 4).
- 7. Connect the sampler power supply to the AC mains source.

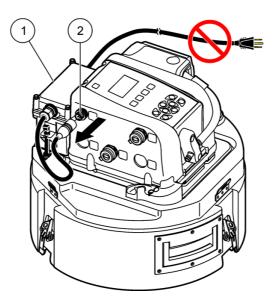


Figure 2 SD900 Portable Sampler power disconnect

1 Power supply 2 Controller power connector

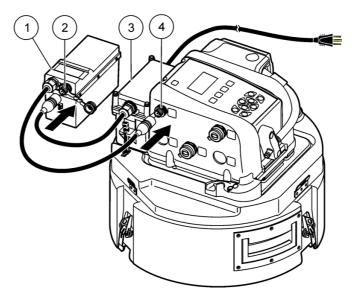


Figure 3 Battery installation for SD900 Portable Sampler

1	Battery backup	3	Power supply
2	Battery backup input receptacle	4	Controller power connector

SD900 Refrigerated Sampler

- 1. Power down the controller.
- 2. Disconnect the controller power supply from its AC mains source.

Note: The controller itself is not connected to the AC mains.

- 3. Disconnect the power connector cable from the controller.
- **4.** Remove the hold down bracket (located behind the controller) from the refrigerator assembly by disengaging the 2 latches on the sides (Figure 4 on page 5).

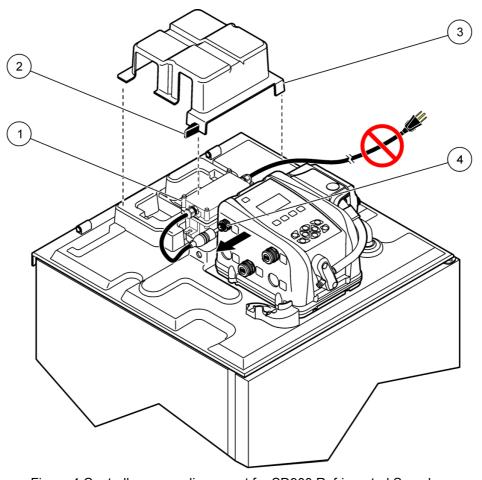


Figure 4 Controller power disconnect for SD900 Refrigerated Sampler

1	Controller power supply	3	Hold down bracket
2	Hold down bracket latch	4	Controller power connector

- **5.** Put the battery backup in the rear compartment of the refrigerator next to the sampler power supply (Figure 5 on page 6).
- **6.** Connect the output cable of the sampler power supply to the input receptacle of the battery backup.
- **7.** Connect the output cable of the battery backup to the controller power connector.
- **8.** Replace the hold down bracket. Engage the front left latch, followed by the rear right latch to secure the hold down bracket.
- 9. Connect the sampler power supply to the AC main source.

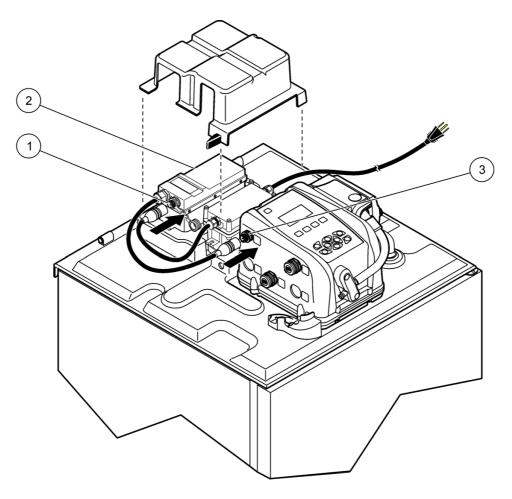


Figure 5 Battery placement and connection for SD900 Refrigerated Sampler

1	Battery backup input cable	3	Controller power connector
2	Battery backup		

SD900 All Weather Refrigerated Sampler



DANGER

Voltage and pressure hazards. Disconnect AWRS from AC power source and wear eye protection prior to opening rear compartment.

- 1. Power down the controller.
- 2. Disconnect the AWRS from its AC mains source.
- 3. Disconnect the power cable from the controller (Figure 6 on page 7). Feed the cable back through the bulkhead to the compressor compartment, removing the foam plug from the opening if necessary.

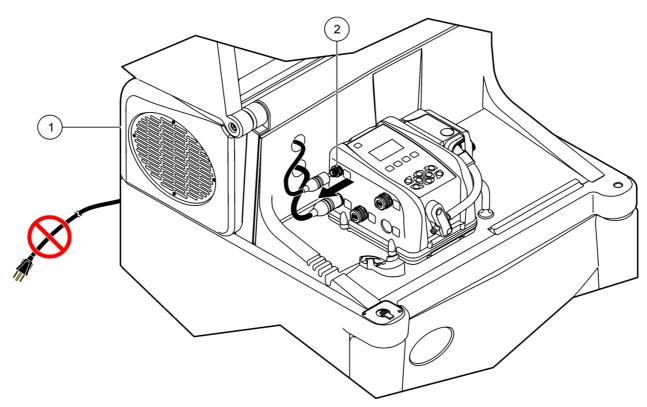


Figure 6 Power disconnect for SD900 All Weather Refrigerated Sampler

1 Compressor compartment

2 Controller power connector

- **4.** Using a phillips head screwdriver, open the sampler compressor compartment by removing the two bolts.
- **5.** Hold the base bracket against the stop flange (Figure 7 on page 8). Put 2 screws (5695400) through the bracket tabs and tighten.
- **6.** Put the backup battery in the compressor compartment in front of the sampler electronics enclosure. When facing the rear of the sampler, the output cable extends to the right when the backup battery is in the correct position.
- **7.** Remove the paper backing from the foam pad and attach the pad to the underside of the clamp bracket.
- **8.** Use the 4 remaining screws (5695400) to attach the clamp bracket to the base bracket.
- **9.** Connect the output cable of the sampler electronics enclosure to the input receptacle on the battery backup.
- **10.** Route the backup battery output and input cables in parallel around the compressor. Secure the cables using the supplied twist lock to make sure the cables do not touch the condenser fan or compressor.
- **11.** Route the backup battery output cable through the bulkhead to the sampler controller compartment.
- **12.** Put the foam plug around the cable and insert the plug in the opening as necessary. Connect the cable to the SD900 controller power connector.
- 13. Close the sampler compressor compartment cover and install the 2 bolts to secure it.
- 14. Connect the AWRS power supply to the AC mains source.

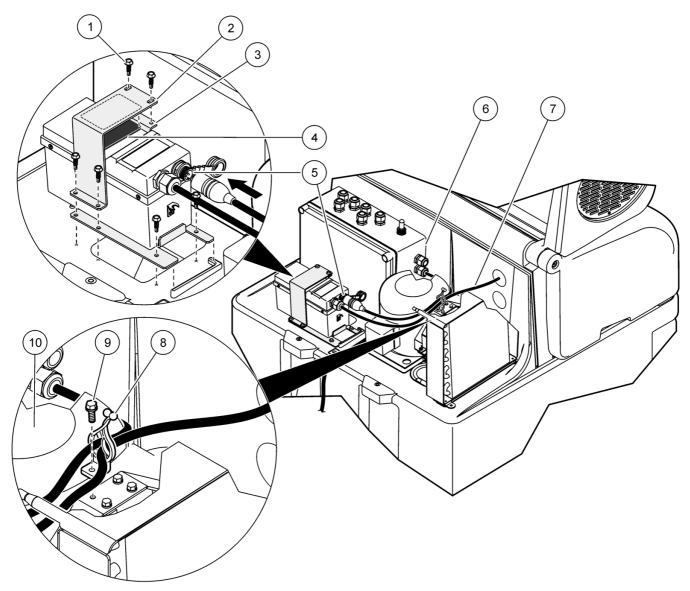


Figure 7 Battery backup installation for SD900 All Weather Refrigerated Sampler

1	Screws for hold down brackets (6x)	6	Electronics enclosure
2	Bracket, clamp	7	Battery output cable
3	Bracket, base	8	Cable twist lock
4	Foam pad	9	Fan shroud screw
5	Backup battery input connector	10	Compressor

Contact Information

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www.hach.com

Repair Service in the United States:

Authorization must be obtained before sending any items for repair.

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