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ENVIROMUX Date/Time Battery Replacement

The E-xD is equipped with a replaceable battery that maintains the set date and time when the ENVIROMUX is powered OFF. In the event you find that the date has been reset to "08/31/2009" after a power-cycle, this means the battery has reached end of life and needs replacement. The clock battery has a life cycle of up to 10 years provided the ENVIROMUX is powered ON continuously during this time. It is recommended that the battery be replaced at 80% of it life cycle (or after 8 years of service).

If the E-xD is powered OFF for long periods of time, you can determine how long this battery will last by calculating the number of hours the E-xD has been powered OFF. The ENVIROMUX, when powered OFF, uses .03125% of its clock battery capacity per hour. One week of powered OFF the ENVIROMUX will use 5.25% of the battery life (168 hours x .03125 = 5.25%) or roughly 6 months of the 10 year in-service life. If the ENVIROMUX is powered OFF indefinitely, the clock battery is estimated to last

To replace the battery:

1. Avoid Electrostatic Discharge (ESD) by grounding yourself before touching the ENVIROMUX. Failure to follow this step may damage your ENVIROMUX.

2. Power OFF the ENVIROMUX.

WARNING: RISK OF ELECTRIC SHOCK!! If you prefer to change this battery while power is connected to avoid having to reset the date and time, be extremely careful not to touch the exposed 120 or 240VAC line voltage (E-16D) or any other part of the circuit boards. Also, **be careful** not to let the battery fall down onto the live circuit board.

3. Remove the screws that hold the top of the case to the ENVIROMUX (10 in the E-16D, 5 in the E-2D/5D, locations indicated below by orange arrows) and remove the cover to expose the circuit boards inside.



4. Locate the date/time battery in the ENVIROMUX (see images on first page).

5. Using a <u>non-conductive</u> stick-like object (ex. a Q-tip with the cotton removed from one end), press the battery out of the battery holder. Be careful not to let it fall onto the circuit board if you are doing this with power ON.







6. Re-install the new battery by reversing the process. (**CR1225** for E-2D/5D, **CR2032** for E-16D) With the E-2D/5D, be very careful not to lift up to hard on the retaining clip. Lift only far enough to slip the edge of the new battery under it and slide the battery back into place.

7. Carefully reinstall the cover to the base and install the screws removed.

8. If the ENVIROMUX was powered OFF during this procedure, power ON the ENVIROMUX and configure the correct time and date using one of the control methods described earlier in this manual.

E-16D Backup Battery Replacement

The NTI E-SEMS-16(U) and E-16D Enterprise Environment Monitoring Systems contain a sealed lead acid battery that may at some point need replacement. If the unit is under warranty, contact NTI to arrange for return and factory replacement to prevent voiding the warranty. If the unit is outside of the warranty, field replacement may be preferred (contact NTI to order correct batterysee chart). In either case, the failed battery must be properly disposed of. To replace the battery, carefully follow all instructions. Note1: The E-SEMS-16 will have either E-BATTERY2 or E-BATTERY5 inside. Be sure to open the case and check before ordering. See our website or below to see images and identify which one is needed.



RISK OF ELECTRIC SHOCK! FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN ELECTRICAL SHOCK.

Disconnect ALL power and connection cables from the ENVIROMUX before proceeding.

- 1. Remove 10 Phillips-head screws securing the cover of the ENVIROMUX to expose the components inside.
- 2. Locate the battery inside the ENVIROMUX. (See figure below)
- 3. Remove the two wires connected to the battery using pliers.
- 4. Remove the 6 Phillips-head screws securing the two brackets holding the battery to the case. Screw heads are accessible from the bottom side of the ENVIROMUX.
- 5. Remove the battery.
- 6. Place the new battery in the case with the terminals in the same position as the battery that was removed.
- 7. Reinstall the two brackets to secure the battery using the 6 Phillips-head screws.
- 8. Attach the two wires. Be sure the wire connectors are fully on the battery terminals.
- 9. Reinstall the cover of the ENVIROMUX.
- 10. Dispose of the battery according to local requirements.

Note2: Charge new battery (power up the ENVIROMUX) for at least 48 hours before putting the ENVIROMUX in storage. and if kept in storage, recharge the battery every 3 months.

For instruction on the proper disposal of the battery, either contact the Rechargeable Battery Recycling Corporation (RBRC) at 800-822-8837 or go to their website at www.call2recycle.org. Disposal will be at no cost to you.

NTI Part #	ENVIROMUX Model	9 9			States of the local division of the local di					
E-BATTERY2	E-SEMS-16U									
	E-16D (see note1 above)	Secon		l / L						
	E-16DDP					P +				
	E-16DEL		A							
	E-16-24V(DP)			attery atter						1
	E-16-48V(DP)			12V,2 acid bi menta ment				0	228 Hr.	•
-BATTERY5	E-SEMS-16 (see note1 above)			ad lead ad lead to reactive to reactive to reactive to reactive to reactive to reactive				. 6	Amp.	
	E-16D (see note1 above)			-12FF			All		C 20 and	
				P2.3						

Screws for support brackets. (Screw heads are accessible from the bottom side of the case.)

Wire connections E-BATTERY2 (Dimensions: 133x33x97mm)



E-BATTERY5 (Dimensions: 178x34x64mm

E-2DB/5DB and E-MINI-LXOB Backup Battery Replacement

The NTI E-2DB/5DB and E-MINI-LXOB Enterprise Environment Monitoring System contain a sealed lithium ion battery that may at some point need replacement. The failed battery must be properly disposed of. To replace the battery, <u>carefully follow all</u> instructions.

Note: The images below show an E-2DB, but the E-5DB and E-MINI-LXOB battery is changed using the same procedure.

WARNING RISK OF ELECTRIC SHOCK! FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN ELECTRICAL SHOCK.

Disconnect ALL power and connection cables from the ENVIROMUX before proceeding.

- 1. Ground yourself before opening the ENVIROMUX to discharge any static electricity you might be charged with.
- 2. Remove the 5 Phillips-head screws securing the cover of the ENVIROMUX to expose the components inside. (You may have to either first remove the mounting brackets or DIN rail clip to access the screw in the back of the case.)
- 3. Locate the battery inside the ENVIROMUX. (See figure below)
- 4. Unplug the red connector with red and black wires connecting the battery to the circuit board.
- 5. Remove the 2 Phillips-head screws securing the bracket holding the battery to the case.
- 6. Remove the battery.
- 7. Place the new battery in the case with the wires exiting the battery in the same position as the battery that was removed.
- 8. Reinstall the 2 Phillips-head screws to the bracket to secure the battery.
- 9. Re-attach the red plug at the end of the wires to the header on the circuit board. Be sure the wire connector is fully seated.
- 10. Reinstall the cover of the ENVIROMUX.
- 11. Dispose of the battery according to local requirements.

Note: Connect power to the ENVIROMUX (unit does not have to be ON) and charge new battery for at least 24 hours before putting the ENVIROMUX in storage, and if kept in storage, recharge the battery every 6 months.

For instruction on the proper disposal of the battery, either contact the Rechargeable Battery Recycling Corporation (RBRC) at 800-822-8837 or go to their website at www.call2recycle.org. Disposal will be at no cost to you.



Recycling Information

Attention: Residents of New York, USA

The E-16D is subject to New York's recycle laws regarding lead acid batteries.



The E-16D contains a sealed lead acid battery. Battery maintenance must be performed by an authorized trained technician. Always follow local laws and regulations regarding the disposal of this unit.



For instruction on the proper disposal of the battery contained in this unit, either contact the Rechargeable Battery Recycling Corporation (RBRC) at 800-822-8837 or go to their website at <u>www.call2recycle.org</u>. Disposal will be at no cost to you.

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