

Shipping Lithium Ion Batteries



a xylem brand

Product Notice NP-01

Lithium Ion Batteries

Please do not ship damaged or potentially defective batteries to YSI or any of our authorized service centers unless instructed otherwise. If you have any questions or concerns, please do not hesitate to contact YSI Technical Support at:

800-765-4974 (within the US) or
+1-937-767-7241, option 2, or
info@ysi.com.

Brand new batteries, purchased as accessories or installed in instruments, may be returned to YSI with prior authorization from YSI. All federal and international shipping laws should be consulted prior to shipping lithium-ion batteries. The shipper bears responsibility for proper packaging, labeling, and transport documents. International shippers such as UPS or FedEx may provide further information on shipping, labeling, and documentation of lithium ion battery transport.

Several YSI products contain or may use rechargeable (secondary) lithium ion battery packs. Each battery is of the type proven to meet the requirements of each test in the *UN Manual of Tests and Criteria*, Part III, section 38.3. YSI products with rechargeable lithium ion battery packs include:

- **EXO Handheld** battery pack, item 599622 (pack is an accessory). UN 3480, Class 9, miscellaneous hazardous materials, 20.72 Watt hours, battery pack weight 0.86 kg as packaged.
- **Pro DSS Handheld** (lithium ion pack, shipped installed). UN 3481, Class 9, miscellaneous hazardous materials, 24.12 Watt hours, instrument with battery weight 1.02 kg as packaged.



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- **Pro DSS handheld** replacement battery pack, item 626846. UN 3480, Class 9, miscellaneous hazardous materials, 4.12 Watt hours, battery pack weight 0.60 kg estimated as packaged.
- **Pro DSS** accessory battery pack, item 626943. UN 3480, Class 9, miscellaneous hazardous materials, 30 Watt hours, battery pack weight 0.20kg.
- **Pro DSS** accessory battery pack, item 626944. UN 3480, Class 9, miscellaneous hazardous materials, 60 Watt hours, battery pack weight 0.38 kg.

Transport of lithium batteries, both lithium ion and lithium metal, are fully regulated dangerous goods when prepared under Section I IATA regulations. These commodities must be correctly identified, classified, packaged, marked and labeled. Additionally, if no exceptions apply, the package must have the Shipper's Declaration for Dangerous Goods completed and signed by a trained shipper.

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Information needed to determine lithium battery transport requirements or exceptions includes:

- Transport method (ground, ocean, passenger aircraft, cargo aircraft)
- Transport regulations of the countries involved in ship from, ship to
- Watt hours of each lithium battery
- Location of each battery (standalone, packed with, or contained in)
- Number of lithium batteries packed in one container
- Weight of each item packaged
- Total weight of the packaged container

Lithium battery transport is regulated, at a minimum, per the following:

- U.S. Department of Transportation (DOT) Hazardous Materials Regulations (49 CFR 173.185).
- Section I International Air Transport Association (IATA) Dangerous Goods Regulations (DGR).
The IATA DGR is based on and produced in consultation with the International Civil Aviation Organization (ICAO) Technical Instructions.
- International Maritime Dangerous Goods (IMDG) Code
- ADR Dangerous Goods Regulations for European Road Transport

Damaged or defective lithium batteries or devices containing lithium batteries (including those being returned to the manufacturer as part of a safety recall) are forbidden for transportation by aircraft. In the event that the internal battery pack comes into contact with, is completely submerged in water, or is otherwise damaged, swollen, cracked, or opened, YSI recommends that you decommission the battery and seek out a replacement.

When the battery is worn out, insulate the terminals with adhesive tape or similar materials before disposal. Dispose of batteries in the manner required by your city, county, state or country. For details on recycling lithium-ion batteries, please contact a government recycling agency, your waste-disposal service, or visit a reputable online recycling sources such as www.batteryrecycling.com.

Do not ship batteries to YSI unless instructed to do otherwise.

For information including YSI instrument specifications, visit:

ysi.com

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