

LIMITED WARRANTY & LIMITATION OF LIABILITY LIMITED WARRANTY & LIMITATION OF LIABILITY

Each Fluke product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is one year or 300 charge cycles and begins on the date of shipment. Parts, product repairs and services are warranted for 90 days. This warranty extends only to the original buyer or end-user customer of a Fluke authorized reseller, and does not apply to fuses, disposable batteries or to any product which, in Fluke's opinion, has been misused, altered, neglected or damaged by accident or abnormal conditions of operation or handling. Fluke warrants that software will operate substantially in accordance with its functional specifications for 90 days and that it has been properly recorded on non-defective media. Fluke does not warrant that software will be error free or operate without interruption.

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Fluke's warranty obligation is limited, at Fluke's option, to refund of the purchase price, free of charge repair, or replacement of a defective product which is returned to a Fluke authorized service center within the warranty period.

To obtain warranty service, contact your nearest Fluke authorized service center or send the product, with a description of the difficulty, postage and insurance prepaid (FOB Destination), to the nearest Fluke authorized service center. Fluke assumes no risk for damage in transit. Following warranty repair, the product will be returned to Buyer, transportation prepaid (FOB Destination). If Fluke determines that the failure was caused by misuse, alteration, accident or abnormal condition of operation or handling, Fluke will provide an estimate of repair costs and obtain authorization before commencing the work. Following repair, the product will be returned to the Buyer transportation prepaid and the Buyer will be billed for the repair and return transportation charges (FOB Shipping Point).

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SERVICE CENTERS

To locate an authorized service center,
visit us on the World Wide Web:

<http://www.fluke.com>

or call Fluke using any of the phone numbers listed below:

+1-888-993-5853 in U.S.A. and Canada

+31-40-2675200 in Europe

+1-425-446-5500 from other countries

FLUKE®

BP291 Li-ion Battery Pack

Instruction Sheet

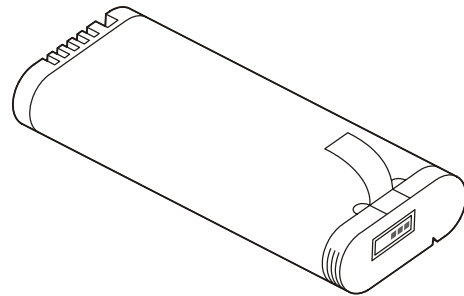
Introducing the BP291

BP291 is a Li-ion battery pack for use in the Fluke 190 Series II ScopeMeter Test Tool. A microcontroller keeps record of the charge condition of the battery and a LCD display informs you about this condition.

If all five LCD segments are on, the battery is charged to 100 % of its present capacity (a segment typically represents 20 % of the battery's capacity).

The battery can be charged when installed in the Test Tool or by External Battery Charger EBC290.

To exchange the battery in Fluke 190 Series II, refer to the Users Manual of the Test Tool.



Unpacking

Following items should be included in the shipment:

- BP291 Battery Pack.
- Instruction Sheet (this document).

Check the contents of the shipping box for completeness. If something in the box has been damaged or is missing, contact your distributor or the nearest FLUKE sales or service office immediately.

October 2010.
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Safe Use of Battery Pack

The battery pack Fluke model BP291 has been tested in accordance with the UN Manual of Tests and Criteria Part III Subsection 38.3 (ST/SG/AC.10/11/Rev.3) – more commonly known as the UN T1..T8 – tests, and have been found to comply with the stated criteria. As a result they can be shipped unrestricted internationally by any means. The battery pack has been tested according to IEC62133.

Recommendations to safe storage of the product:

- Do not store in direct sunlight.
- Do not remove a product from its original packaging until required for use.
- When possible, remove the product from the equipment when not in use.
- Fully charge the product before storing it for an extended period to avoid a defect.
- After extended periods of storage, it may be necessary to charge and discharge the product several times to obtain maximum performance.
- Keep the product out of the reach of children and animals.
- Seek medical advice if a battery or part of it has been swallowed.

Recommendations to safe use of the product:

- The product needs to be charged before use. Always use the correct charger and refer to Fluke's safety instructions and Users Manual for proper charging instructions.
- Do not leave the product on prolonged charge when not in use.
- The product gives the best performance when operated at normal room temperature 20 °C ± 5 °C (68 °F ± 9 °F).
- Do not expose the product to heat or fire.
- Do not subject the product to severe impacts such as mechanical shock.
- Keep the product clean and dry.
- Do not use any charger other than that specifically provided for use with this equipment.
- Do not use any battery which is not designed or recommended by Fluke for use with the Test Tool.
- Take careful notice of correct placement of the product in Test Tool or External Battery Charger.
- Do not short-circuit the product. Do not store battery packs haphazardly in a place where they may short-circuit each other or be short-circuited by other metal objects (e.g. coins, paperclips, pens or other).
- Never use the product or charger showing visible damage.
- In the event of a battery pack leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Repair the ScopeMeter Test Tool before use if the battery leaks.
- Alteration of the product: there shall be no attempt to open, modify, reform or repair a product, which appears to be malfunctioning, or which has been physically damaged.
- Use the product only in the application for which it is intended.
- Retain the original product information for future reference.






Recommendations to safe transport of the product:

- The product must adequately be protected against short-circuit or damage during transport.
- Always consult the IATA guidelines describing safe air transport of Li-ion batteries.
- Check-in luggage: battery packs are only allowed when installed in the Test Tool.
- Hand carried luggage: a number of battery packs as required for normal and individual use is allowed.
- Always consult national/local guidelines that are applicable for shipment by mail or other transporters.
- A maximum of 3 battery packs may be shipped by mail. The package must be marked as follows: PACKAGE CONTAINS LITHIUM-ION BATTERIES (NO LITHIUM METAL).

Recommendations to safe disposal of the product:

- A failed product shall be properly disposed of in accordance with local regulations.
- Dispose of properly: do not dispose of the product as unsorted municipal waste. Go to Fluke's website for recycling information.
- Dispose in discharged condition and cover the product's terminals with isolation tape.

Symbols

	See explanation in manual
	Conformité Européenne
	Safety Approval
	Recycling information
	Do not dispose of this product as unsorted municipal waste. Go to Fluke's website for recycling information

Specifications

Capacity: 52 Wh, 4.8 Ah

Voltage: 10.8 V

Chemistry: Lithium Ion

Equivalent lithium content: 4.68 g

Weight: 340 g

Dimensions: 22 x 150 x 59 mm

Temperature:

- Product installed in test Tool: 0 to 40 °C

- Storage: -20 to +60 °C

Tested to: UN/DOT/IATA, IEC62133