

Symbols

The table below is a list of symbols used on the Product and in this document.



Symbol	Description
	WARNING - RISK OF DANGER. Consult user documentation.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Consult user documentation.
	Double Insulated
	Fuse
CAT II	Measurement Category II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage MAINS installation.
CAT III	Measurement Category III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.
CAT IV	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.
	Conforms to European Union directives.
	This product complies with the WEEE Directive marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste.

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that Service Center with a description of the problem.

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FTP17XXPQ

Fused Test Probe Set

3-Phase PQ, AC285, R/B

Instructions

Introduction

The FTP17XXPQ (the Product) is a set of four FTP-1 SureGrip Fused Test Probes with adapters and AC285 alligator clips. These test probes are for use with standard test leads that have 4 mm safety plugs. The Product has a replaceable 1000 V, 11 A, 20 kA IR fuse for additional measurement protection.

How to Contact Fluke

Fluke Corporation operates worldwide. For local contact information, go to our website: www.fluke.com

To register your product, view, print, or download the latest manual or manual supplement, go to our website.

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Safety Information

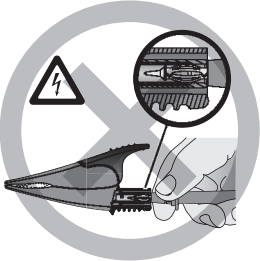
A **Warning** identifies conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.



Warning

To prevent electrical shock, fire, or personal injury:

- Read all safety information before you use the Product.
- Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.
- Comply with local and national safety codes. Use personal protective equipment (approved rubber gloves, face protection, and flame-resistant clothes) to prevent shock and arc blast injury where hazardous live conductors are exposed.
- Do not exceed the Measurement Category (CAT) rating of the lowest rated individual component of a Product, probe, or accessory.
- Measure a known voltage first to make sure that the Product operates correctly.
- Hold the Product behind the tactile barrier when the 4 mm adapter ❶ is not attached.
- Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Do not use the Product if it is altered or damaged.
- Do not use in CAT III or CAT IV environments without the adapters installed. The adapters decreases the exposed probe metal to <4 mm. This decreases the possibility of arc flash from short circuits.
- Do not make connections on hazardous live conductors in damp or wet environments.
- Limit operation to the specified measurement category, voltage, or amperage ratings.
- Do not use a shrouded banana jack accessory such as an alligator clip with an unshrouded 4 mm banana probe tip terminal in a hazardous electrical installation. Due to the lack of a shroud, the probe tip connector does not provide suitable insulation to accessible parts with this type of assembly.



Unpack

The Product includes these items:

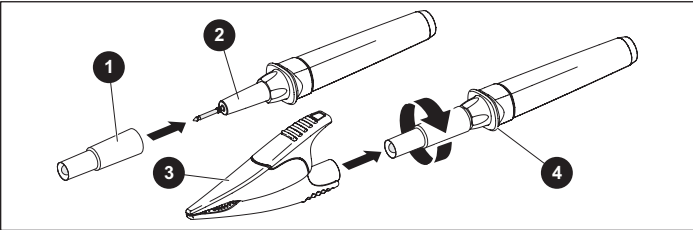
- FTP-1 SureGrip Fused Test Probes (1 black for connecting to neutral voltage, 3 red for connecting to phase voltages)
- AC285 Alligator Clips (1 black, 3 red)
- Adapters that securely attach the Fluke AC285 alligator clips to the Fused Test Probes (4)
- FTP17XXPQ Instructions

At delivery, make sure that the shipment is complete and all items are undamaged. Contact your supplier if you see any damage.

Operation

To use:

1. Thread the adapter ❶ onto the probe ❷.
2. Push on the alligator clip AC285 ❸ securely for a firm connection for CAT III/CAT IV measurements.



Maintenance

Clean the Product with a damp cloth and mild detergent. Do not immerse in liquid.

Fuse Information

To replace fuse:

1. Unscrew the handle at the finger guard ❹.
2. Replace the fuse.



Caution

For safety, replace with Fluke part number 803293 only.

3. Screw handle into place.

When the fuse is blown, a 1 MΩ parallel resistor allows the meter to take a measurement and indicate if live voltage is present. This measurement helps to prevent a possible misreading of no voltage present. The input impedance of the meter has significant effect on the reading error. See table below.

Voltage Reading with Blown Fuse

Actual MainsVoltage	Meter Input Impedance ^[1]	Meter Reading (V) with Blown Fuse	Error (%)
480 V	10 MΩ	417.9	12.9
480 V	4 MΩ	384.4	19.9
480 V	1 MΩ	226.3	52.8
480 V	3 kΩ	1.3	99.7

[1] Fluke Power Quality Analyzers typically have input impedances >1 MΩ.

Specifications

Input..... 10 A maximum
Measurement protection..... 1000 V, 11 A, 20 kA IR

Environmental

Operating temperature..... -20 °C to +50 °C (-5 °F to +120 °F)
Maximum altitude..... 3000 m

Safety..... IEC 61010-031, Pollution Degree 2
CAT II 1000 V without adapters installed
CAT III 1000 V, CAT IV 600 V with adapters installed