

Fluke I1000S

Fluke I1000S Large AC Current Probe Instruction Manual

Model: I1000S

1. INTRODUCTION

The Fluke I1000S is a high-performance clamp-on AC current probe designed for accurate current measurements in industrial and power environments. It is ideal for use with oscilloscopes to analyze distorted current waveforms and harmonics, providing precise data without the need to break into the circuit.



Image 1.1: The Fluke I1000S Large AC Current Probe, showing its red clamp jaws, gray body with a selector switch, and the attached

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Fluke I1000S AC Current Probe.

2. KEY FEATURES

- Accurate measurement of currents from 100 mA to 1000 A rms.
- Wide frequency range from 5 Hz to 100 kHz.
- Non-intrusive measurement without breaking the circuit.
- Integrated passive filter to eliminate noise and ringing on rapidly rising di/dt waveforms, ensuring clear oscilloscope displays.
- Direct connection to oscilloscopes via a reinforced coaxial cable and insulated BNC connector.
- Compatibility with multimeters using an optional PM9081/001 BNC/Banana adapter.
- Safety rating: CAT III, 600 V.

3. SETUP

Before using the Fluke I1000S, ensure all connections are secure and the probe is clean.

1. **Connect to Oscilloscope:** Connect the BNC connector of the probe's coaxial cable directly to the input channel of your oscilloscope. Ensure the connection is firm.
2. **Connect to Multimeter (Optional):** If using with a multimeter, attach the optional PM9081/001 BNC/Banana adapter to the probe's BNC connector, then connect the banana plugs to the appropriate input jacks on your multimeter.
3. **Select Range:** Use the selector switch on the probe body to choose the appropriate current range (10 A, 100 A, or 1000 A) based on the expected current of the circuit being measured.
4. **Power On:** Ensure your connected measurement device (oscilloscope or multimeter) is powered on and configured for current measurement.

4. OPERATING INSTRUCTIONS

Follow these steps for accurate current measurement:

1. **Safety First:** Always ensure the circuit is de-energized or appropriate safety precautions are taken before clamping the probe around a conductor. Observe the CAT III, 600 V safety rating.
2. **Open Clamp:** Press the lever on the probe to open the clamp jaws.
3. **Encircle Conductor:** Carefully place the open jaws around a single conductor carrying the AC current you wish to measure. Ensure the jaws close completely around the conductor. Do not clamp around multiple conductors if you intend to measure the current in only one.
4. **Select Range:** Verify that the selected range on the probe (10 A, 100 A, or 1000 A) is suitable for the expected current. Start with a higher range if unsure to prevent overloading.
5. **Read Measurement:** Observe the current reading on your connected oscilloscope or multimeter. The probe outputs are 100 mV/A, 10 mV/A, and 1 mV/A for the 10 A, 100 A, and 1000 A ranges respectively. Adjust your measurement device's settings as needed to interpret the output correctly.
6. **Disconnect:** After measurement, open the clamp jaws and remove the probe from the conductor. Disconnect the probe from your measurement device.

Note: The passive filter helps in obtaining clean waveforms, especially for distorted signals and harmonics. Ensure proper grounding of your oscilloscope for optimal performance.

5. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Fluke I1000S probe.

- **Cleaning:** Clean the probe's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the jaws are free of dust and debris to maintain proper closure.
- **Storage:** Store the probe in a clean, dry environment, away from extreme temperatures and direct sunlight. Keep the jaws closed when not in use to protect the internal components.
- **Inspection:** Periodically inspect the coaxial cable and BNC connector for any signs of damage, such as cuts, fraying, or bent pins. Do not use the probe if the cable or connector is damaged.
- **Calibration:** While the probe is designed for long-term stability, periodic calibration by a qualified service center is recommended to ensure continued accuracy, especially in critical applications.

6. TROUBLESHOOTING

If you encounter issues with your Fluke I1000S probe, consider the following common problems and solutions:

Problem	Possible Cause	Solution
No reading or erratic reading	Incorrect range selected. Probe jaws not fully closed. Damaged cable or connector. Conductor not properly centered. Measurement device not configured correctly.	Select appropriate current range. Ensure jaws are completely closed around a single conductor. Inspect cable and connector for damage; replace if necessary. Reposition the probe to center the conductor. Check oscilloscope/multimeter settings (e.g., input impedance, scaling).
Noisy or distorted waveform on oscilloscope	External electromagnetic interference. Improper grounding of oscilloscope. High frequency noise not fully filtered.	Move probe away from strong magnetic fields. Ensure oscilloscope is properly grounded. Verify the passive filter is functioning; if issues persist, contact support.

If the problem persists after attempting these solutions, please contact Fluke customer support.

7. SPECIFICATIONS

Parameter	Value
Model	I1000S
Nominal Current Ranges	10 A, 100 A, 1000 A
Continuous Current Range	0.1 A - 10 A, 0.1 A - 100 A, 1 A - 1000 A

Parameter	Value
Maximum Non-Destructive Current	2000 A
Lowest Measurable Current	0.1 A
Basic Accuracy (48-65 Hz)	1% + 1 A
Usable Frequency Range	5 Hz - 100 kHz
Output Levels	100 mV/A (10A range), 10 mV/A (100A range), 1 mV/A (1000A range)
Safety Rating	CAT III, 600 V
Connection Type	Reinforced Coaxial Cable with Insulated BNC Connector
Item Weight	6.3 ounces
Product Dimensions	3.74 x 1.97 x 0.47 inches

8. WARRANTY INFORMATION

The Fluke I1000S Large AC Current Probe comes with a **one-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty service, please retain your proof of purchase and contact Fluke customer support.

The warranty does not cover damage resulting from misuse, accident, modification, contamination, neglect, or damage caused by operating conditions outside the product's specified limits.

9. SUPPORT AND CONTACT

For technical assistance, product inquiries, or warranty claims, please contact Fluke customer support:

Website: www.fluke.com

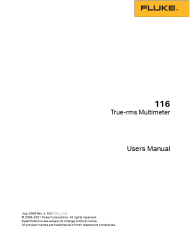
Phone: Refer to the Fluke website for regional contact numbers.

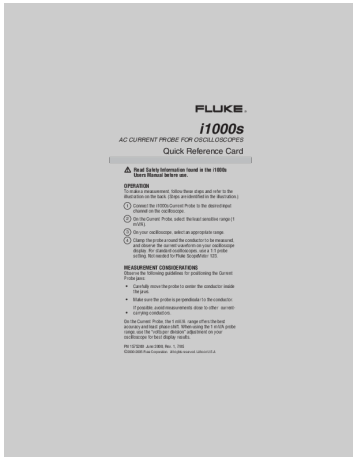
Online Resources: Visit the Fluke website for FAQs, product documentation, and software updates.

When contacting support, please have your product model (I1000S) and serial number (if applicable) ready.

Related Documents - I1000S

	Fluke 110 True-RMS Multimeter: Technical Specifications and Features Detailed specifications and features of the Fluke 110 compact True-RMS multimeter, designed for precise electrical installation and troubleshooting. Includes accuracy, safety ratings, and included accessories.
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	Fluke 323/324/325 Clamp Meter User Manual Comprehensive user manual for Fluke 323, 324, and 325 clamp meters, detailing features, safety precautions, specifications, and operational guidance for accurate electrical measurements.
	Fluke 116 True-rms Multimeter User Manual User manual for the Fluke 116 True-rms Multimeter, covering features, operation, safety information, and specifications.
	Fluke 373 True-RMS AC Clamp Meter - Technical Specifications and Overview Detailed technical data, key features, product overview, specifications, and ordering information for the Fluke 373 True-RMS AC Clamp Meter, designed for AC-only current measurements up to 600 A.
	Fluke 106/107 Palmsized Digital Multimeters: Technical Specifications and Features Detailed technical specifications, product highlights, and general information for the Fluke 106 and 107 palmsized digital multimeters. Learn about their electrical specifications, accuracy, features, and included equipment.
	Fluke 179 Digital Multimeter: Maintenance and Field Service Guide Discover the Fluke 179 True-rms Digital Multimeter, designed for efficient electrical and HVAC maintenance. Learn about its features, specifications, and recommended accessories for reliable field service.



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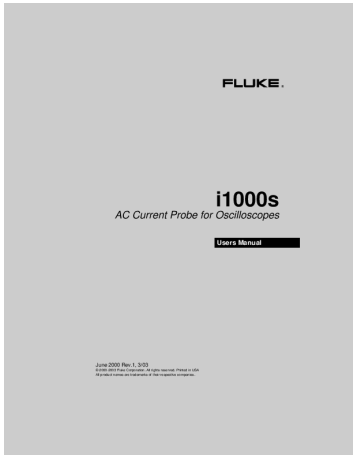
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i1000s AC CURRENT PROBE FOR OSCILLOSCOPES Quick Reference Card Read

Safety Information found in the **i1000s** Users Manual before use. OPERATION To make a measurement, follow these steps and refer to the illustration on the back.

Steps are identified in the illustration. 1 Connect the **i1000s** Current...

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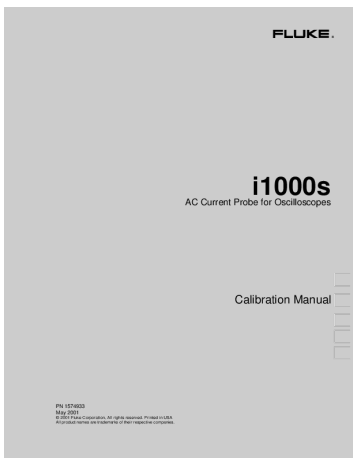
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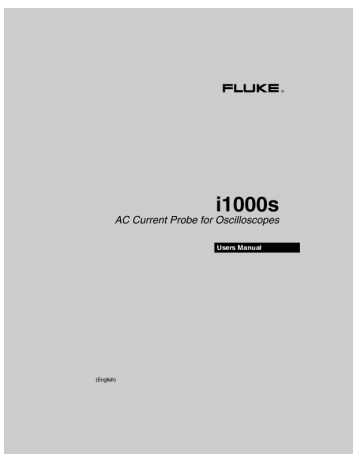
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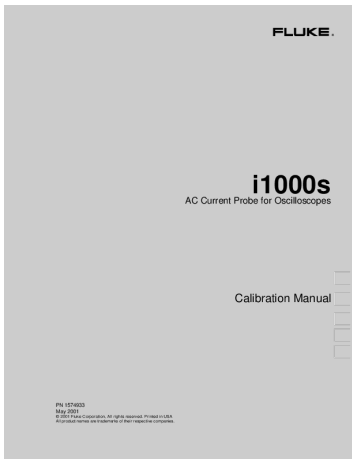
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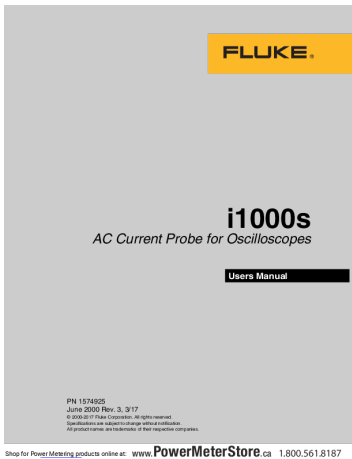


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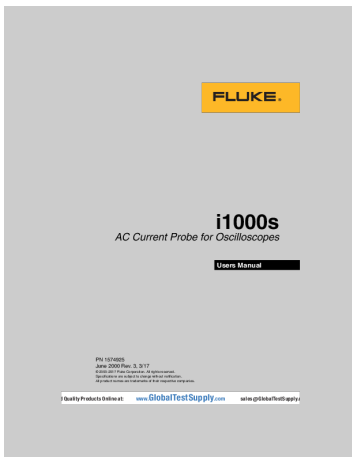
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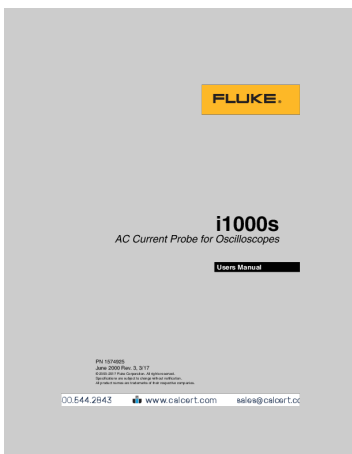
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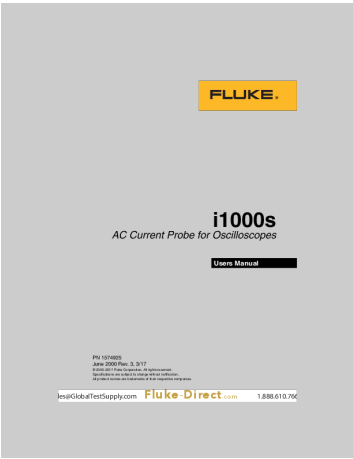
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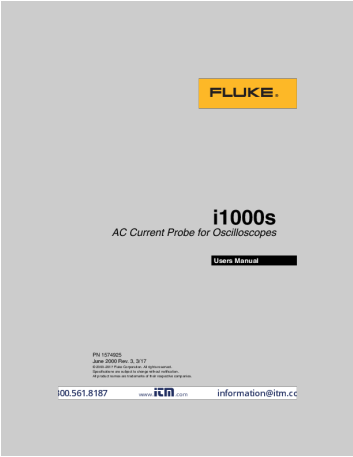
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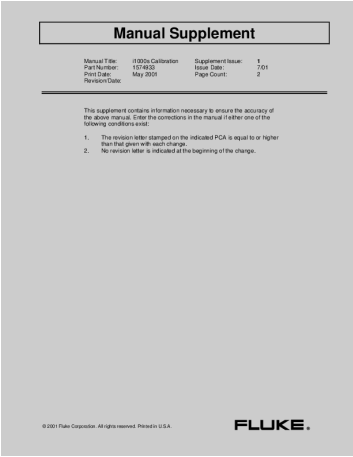
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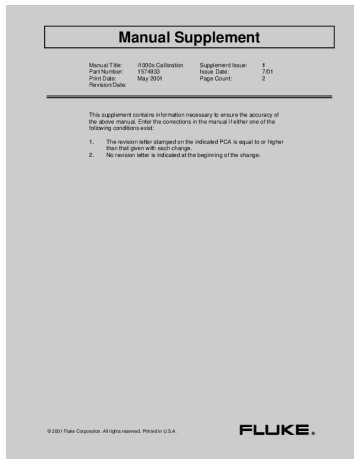
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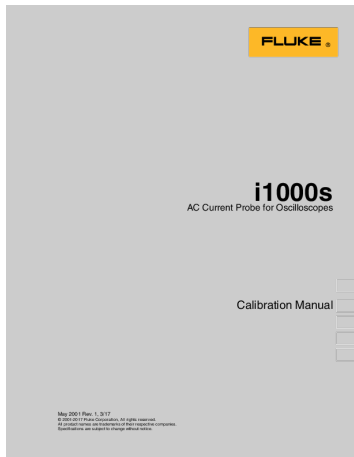
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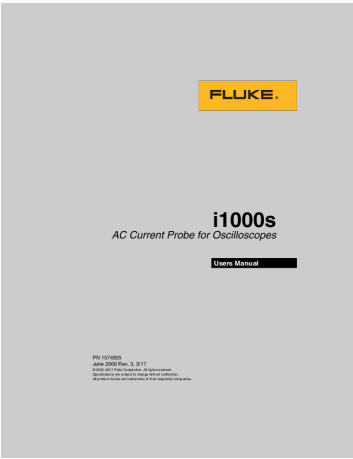


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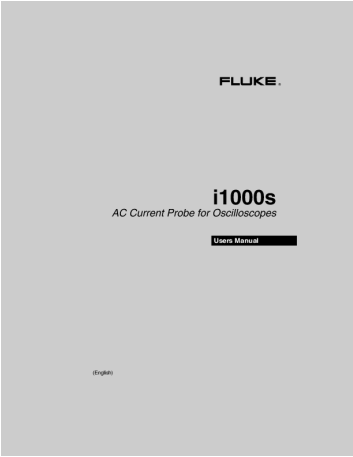
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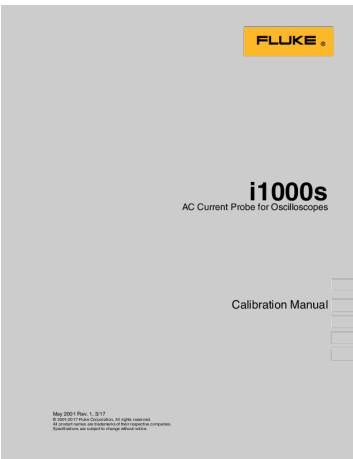
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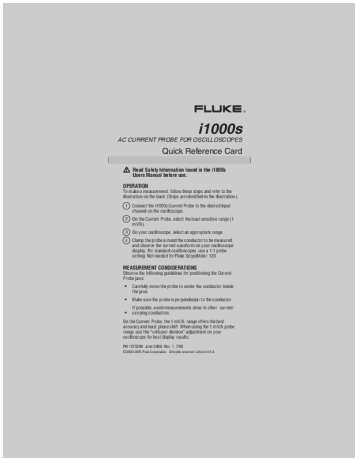
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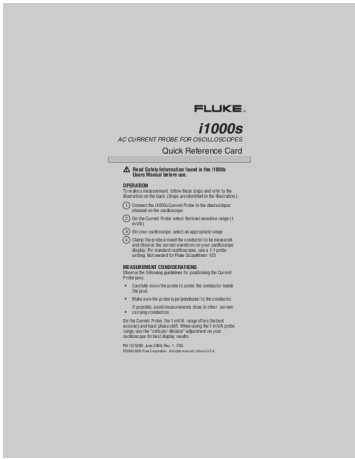
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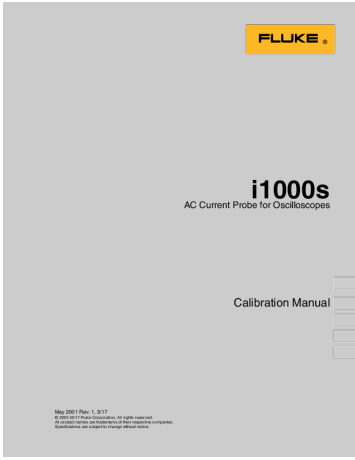
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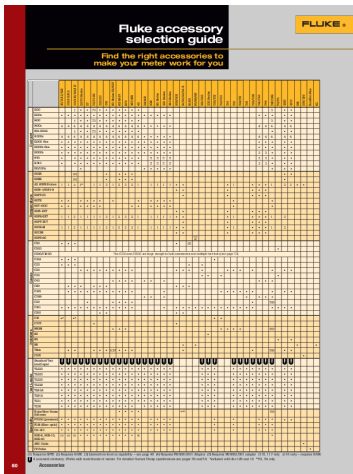
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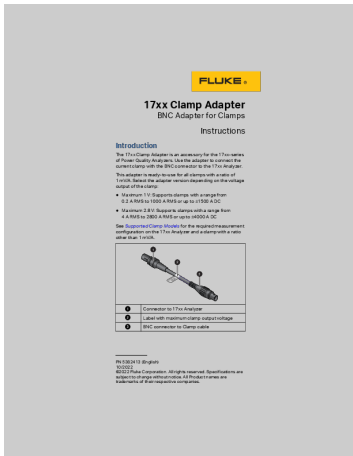


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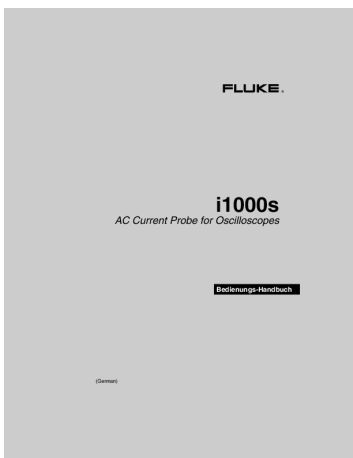


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17xx Clamp Adapter BNC Adapter for Clamps Instructions Introduction The 17xx Clamp Adapter is an acc ... le in your country, see the Fluke website. 3 Supported Clamp Models Sensitivity Range Adapter **i1000s** AC 100 mV/A 10 mV/A 1 mV/A 0.1 A to 10 A 1 V 0.1 A to 100 A 1 A to 1000 A i3000s AC 10 mV...

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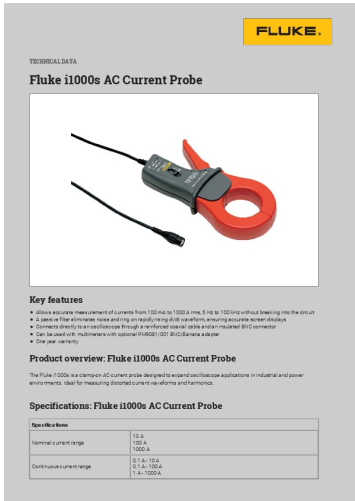


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i1000s AC Current Probe for Oscilloscopes Bedienungs-Handbuch German BEGRENZTE GEWHRLEISTUNG UND HAFTUNGSBESCHRANKUNG Fluke gewhrleistet, da jedes Fluke-Produkt unter normalem Gebrauch und Service frei von Material- und Fertigungsdefekten ist. Die Garantiedauer betrgt 1 Jahr ab Versanddatum. D...

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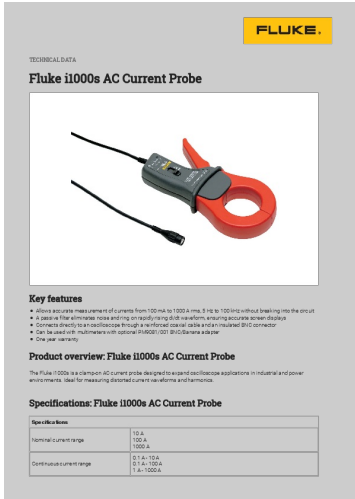


[\[pdf\]](#) Specifications Datasheet Warranty

Data Sheet Fluke i1000s AC Current Probe mme ae fluke dl 2023 07 |||

TECHNICAL DATA Fluke **i1000s** AC Current Probe Key features Allows accurate measurement of currents from 100 mA to 1000 A rms, 5 Hz to 100 kHz without breaking into the circuit A passive filter eliminates noise and ring on rapidly rising di/dt waveform, ensuring accurate screen displays Connects dire...

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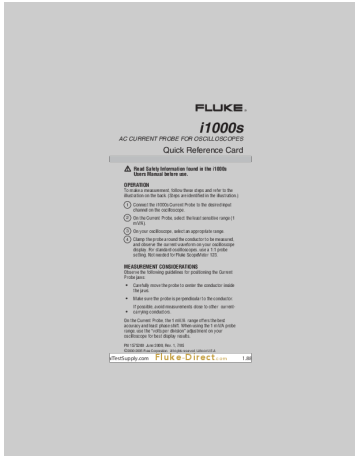


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Data Sheet Buy Fluke I1000S AC Current Probe Prime i1000s datasheet primebuy product |||

i1000s AC CURRENT PROBE FOR OSCILLOSCOPES Quick Reference Card Read Safety Information found in the **i1000s** Users Manual before use. OPERATION To make a measurement, follow these steps and refer to the illustration on the back. Steps are identified in the illustration. 1 Connect the **i1000s** Curren...

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TECHNICAL DATA

Fluke i1000s AC Current Probe



Key features

- Allows accurate measurement of currents from 100 mA to 1000 A rms, 5 Hz to 100 kHz without breaking into the circuit
- A passive filter eliminates noise and ring on rapidly rising di/dt waveforms, ensuring accurate screen displays
- Connects directly to an oscilloscope through a reinforced optical cable and a protected BNC connector
- Can be used with multimeters with optional FIM201 (201) BNC/GSseries adapter
- One year warranty

Product overview: Fluke i1000s AC Current Probe

The Fluke i1000s is a clamp-on AC current probe designed to expand oscilloscope applications in industrial and power environments. Ideal for measuring distorted current waveforms and harmonics.

Specifications: Fluke i1000s AC Current Probe

Specifications	
Rated current range	10 A 100 A 1000 A
Continuous current range	0.1 A–10 A 0.1 A–100 A 1 A–1000 A

[pdf] Specifications Warranty

Fluke i1000s AC Current Probe A7000000009501576 docs rs online 5267 |||

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TECHNICAL DATA

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Rated current range	10 A 100 A 1000 A
Continuous current range	0.1 A–10 A 0.1 A–100 A 1 A–1000 A

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Fluke i1000s AC Current Probe fluke ac current clamp 1000a datasheet 622d3fb7b2 maintive static eb0171d061b75c33aef34aec34beed9 |||

TECHNICAL DATA Fluke **i1000s** AC Current Probe Key features Allows accurate measurement of currents from 100 mA to 1000 A rms, 5 Hz to 100 kHz without breaking into the circuit A passive filter eliminates noise and ring on rapidly rising di/dt waveform, ensuring accurate screen displays Connects dire...

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TECHNICAL DATA

Fluke i1000s AC Current Probe



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Specifications: Fluke i1000s AC Current Probe

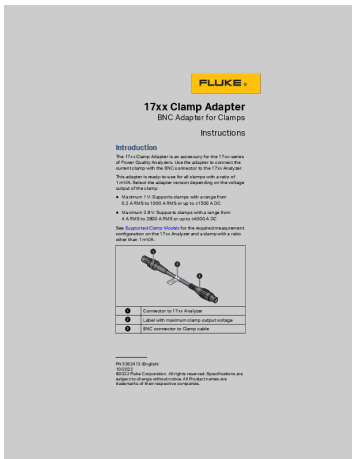
Specifications	
Rated current range	10 A 100 A 1000 A
Continuous current range	0.1 A–10 A 0.1 A–100 A 1 A–1000 A

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Data Sheet Fluke i1000s AC Current Probe m fluke en my product accessories probes ds |||

TECHNICAL DATA Fluke **i1000s** AC Current Probe Key features Allows accurate measurement of currents from 100 mA to 1000 A rms, 5 Hz to 100 kHz without breaking into the circuit A passive filter eliminates noise and ring on rapidly rising di/dt waveform, ensuring accurate screen displays Connects dire...

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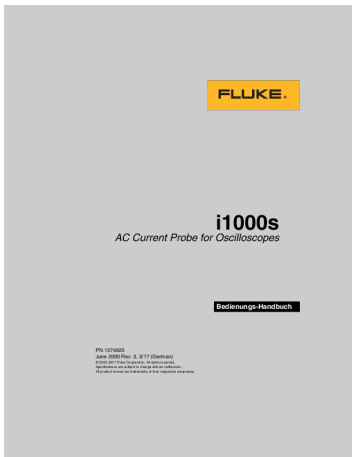


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17xx Clamp Adapter BNC Adapter for Clamps Instructions Introduction The 17xx Clamp Adapter is an acc ... le in your country, see the Fluke website. 3 Supported Clamp Models Sensitivity Range Adapter **i1000s** AC 100 mV/A 10 mV/A 1 mV/A 0.1 A to 10 A 1 V 0.1 A to 100 A 1 A to 1000 A i3000s AC 10 mV...

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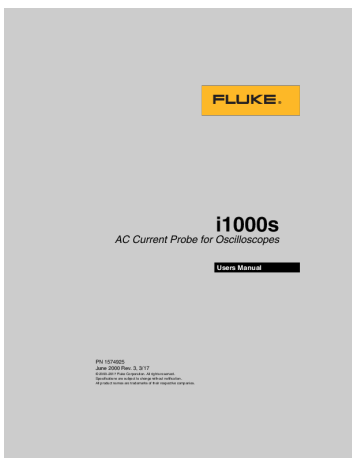


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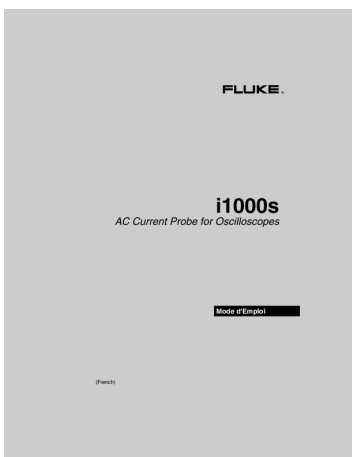


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i1000s AC Current Probe for Oscilloscopes French Mode d Emploi LIMITES DE GARANTIE ET DE RESPONSABILITE La socit Fluke garantit l absence de vices de matriaux et de fabrication de ses produits dans des conditions normales d utilisation et d entretien. La priode de garantie est de un an et pr...

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FLUKE.

Technische gegevens

i1000s AC stroomtang



Belangrijkste kenmerken

- Biedt accurate metingen van stromen van 100 mA tot 1000 A RMS, 5 Hz tot 100 kHz zonder de stroomkring te onderbreken
- Een passief filter elimineert ruis en ringmodulatie bij snel stijgende di/dt-golfvormen voor een nauwkeurige schermweergave
- Accuratesse van 1000 ppm op een nominale waarde, verbeterde nauwkeurigheid en gehedenele EMC-scherming
- Via een optionele FUSED-1001 EMC-kanalenfilter wordt de geleiding in combinatie met multimeters
- Een jaar garantie

Productoverzicht: i1000s AC stroomtang

De FLUKA 1000s is een AC-stroomtangontwerp voor uitgebreide toepassingen in industriële omgevingen. Ideaal voor het meten van de stroom in combinatie met multimeters.

Specificaties: i1000s AC stroomtang

Specificaties	
Nominale stroomrange	10 A 100 A 1000 A

[\[pdf\]](#) Datasheet

i1000s AC stroomtang Fluke datasheet Havé Digitap I1000S Stroomtang met ronde bek 54mm Bereik 10A 100A 1000A have digitap pano Data Environments 000077 Attachment Bijlage Accessoires ||| Technische gegevens **i1000s AC stroomtang** Belangrijkste kenmerken Biedt accurate metingen van stromen van 100 mA tot 1000 A RMS, 5 Hz tot 100 kHz zonder de stroomkring te onderbreken Een passief filter elimineert ruis en ringmodulatie bij snel stijgende di/dt-golfvormen voor een nauwkeurige schermwe...

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0000s AC Current Probe

http://www.fluke.com/us/Products/AccessoryDetail.htm?catalog_name=Fluke

11000s AC Current Probe



Specifications

Parameter	Value
Rated current range	10 A 100 A 1000 A
Continuous current range	10 A 100 A 1000 A
Frequency range	5 Hz to 100 kHz
Accuracy	±1.0%
Input impedance	10 MΩ
Output impedance	100 Ω
Input protection	1000 V AC
Output protection	1000 V AC
Input impedance	10 MΩ
Output impedance	100 Ω
Input protection	1000 V AC
Output protection	1000 V AC

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TECHNICAL DATA

Fluke i1000s AC Current Probe



Key features

- Allows accurate measurement of currents from 100 mA to 1000 A rms, 5 Hz to 100 kHz without breaking into the circuit
- A passive filter eliminates noise and ring on rapidly rising di/dt waveforms, ensuring accurate screen displays
- Connects directly to an oscilloscope through a reinforced metal cable and a rugged BNC connector
- Can be used with multimeters with optional FUSED-1001 EMC channel filter
- One year warranty

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The Fluke i1000s is a clamp-on AC current probe designed for oscilloscope applications in industrial and power environments. Ideal for measuring distorted current waveforms and harmonics.

Specifications: Fluke i1000s AC Current Probe

Specifications	
Nominal current range	10 A 100 A 1000 A
Continuous current range	10 A to 100 A 10 A to 100 A 10 A to 100 A

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Data Sheet Fluke i1000s AC Current Probe Fluke® I1000S Revere Electric Supply Specification

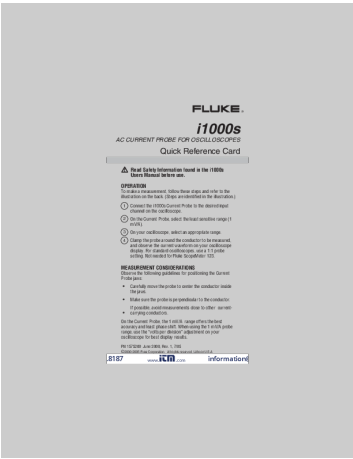
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TECHNICAL DATA Fluke i1000s AC Current Probe Key features Allows accurate measurement of currents from 100 mA to 1000 A rms, 5 Hz to 100 kHz without breaking into the circuit A passive filter eliminates noise and ring on rapidly rising di/dt

TECHNICAL DATA Fluke **i1000s AC Current Probe** Key features Allows accurate measurement of currents from 100 mA to 1000 A rms, 5 Hz to 100 kHz without breaking into the circuit A passive filter eliminates noise and ring on rapidly rising di/dt waveform, ensuring accurate screen displays Connects dire...

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i1000s AC CURRENT PROBE FOR OSCILLOSCOPES Quick Reference Card Read Safety Information found in the **i1000s** Users Manual before use. OPERATION To make a measurement, follow these steps and refer to the illustration on the back. Steps are identified in the illustration. 1 Connect the **i1000s** Curren...

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[\[pdf\]](#) Datasheet Accessories

Data Sheet Sonda de corriente CA i1000s m fluke es gt product accessories probes ds |||

Datos tcnicos Sonda de corriente CA**i1000s** Caractersticas principales Permite la medida precisa de corrientes de 100 mA a 1000 A rms, 5 Hz a 100 kHz sin interrumpir el circuito Un filtro pasivo elimina el ruido y los zumbidos de la forma de onda di/dt en rpido ascenso, asegurando una presentacin en...

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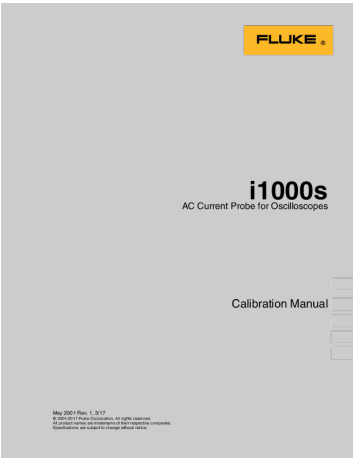


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Data Sheet Sonda de corriente CA i1000s m fluke es mx product accessories probes ds |||

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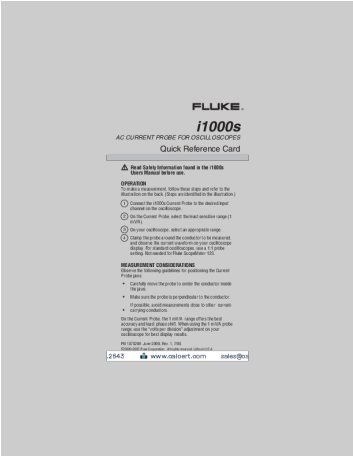
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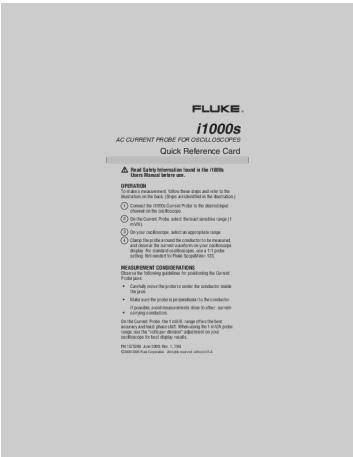
i1000s AC Current Probe for Oscilloscopes Calibration Manual May 2001 Rev. 1, 3/17 2001-2017 Fluke Corporation, All rights reserved. All product names are trademarks of their respective companies. Specifications are subject to change without notice. LIMITED WARRANTY AND LIMITATION OF LIABILITY E... lang:en score:25 filesize: 470.1 K page_count: 20 document date: 2022-11-08



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Manual Supplement

Manual Title:	i1000s Users	Supplement Issue:	1
Part Number:	1574925	Issue Date:	11/02
Print Date:	June 2000	Page Count:	1
Revision/Date:			

This supplement contains information
necessary to ensure the accuracy of
the above manual.

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Manual Supplement Manual Title: **i1000s** Users Part Number: 1574925 Print Date: June 2000 Revision/Date: Supplement Issue: 1 Issue Date: 11/02 Page Count: 1 This supplement contains information necessary to ensure the accuracy of the above manual. 2002 Fluke Corporation. All rights reserved. ...

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