



### **Instruction Manual**

P6015A 1000X High Voltage Probe 070-8223-05



### 📜 ® 北京海洋兴业科技股份有限公司

北京市西三旗东黄平路 19号龙旗广场 4号楼(E座)906室

电 话: 010-62176775 62178811 62176785

企业 QQ: 800057747

企业官网: www.hyxyyq.com

邮编: 100096

传真: 010-62176619

邮箱: info.oi@oitek.com.cn

购线网: www.gooxian.net



扫描二维码关注我们 查找微信企业号:海洋仪器 Copyright © Tektronix. All rights reserved. Licensed software products are owned by Tektronix or its subsidiaries or suppliers, and are protected by national copyright laws and international treaty provisions.

Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supercedes that in all previously published material. Specifications and price change privileges reserved.

TEKTRONIX and TEK are registered trademarks of Tektronix, Inc.

### Contacting Tektronix

Tektronix, Inc. 14200 SW Karl Braun Drive P.O. Box 500 Beaverton, OR 97077 USA

For product information, sales, service, and technical support:

- In North America, call 1-800-833-9200.
- Worldwide, visit www.tektronix.com to find contacts in your area.

### Warranty 2

Tektronix warrants that this product will be free from defects in materials and workmanship for a period of one (1) year from the date of shipment. If any such product proves defective during this warranty period, Tektronix, at its option, either will repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product. Parts, modules and replacement products used by Tektronix for warranty work may be new or reconditioned to like new performance. All replaced parts, modules and products become the property of Tektronix.

In order to obtain service under this warranty, Customer must notify Tektronix of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service. Customer shall be responsible for packaging and shipping the defective product to the service center designated by Tektronix, with shipping charges prepaid. Tektronix shall pay for the return of the product to Customer if the shipment is to a location within the country in which the Tektronix service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. Tektronix shall not be obligated to furnish service under this warranty a) to repair damage resulting from attempts by personnel other than Tektronix representatives to install, repair or service the product; b) to repair damage resulting from improper use or connection to incompatible equipment; c) to repair any damage or malfunction caused by the use of non-Tektronix supplies; or d) to service a product that has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty of servicing the product.

THIS WARRANTY IS GIVEN BY TEKTRONIX WITH RESPECT TO THE PRODUCT IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED. TEKTRONIX AND ITS VENDORS DISCLAIM ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TEKTRONIX' RESPONSIBILITY TO REPAIR OR REPLACE DEFECTIVE PRODUCTS IS THE SOLE AND EXCLUSIVE REMEDY PROVIDED TO THE CUSTOMER FOR BREACH OF THIS WARRANTY. TEKTRONIX AND ITS VENDORS WILL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IRRESPECTIVE OF WHETHER TEKTRONIX OR THE VENDOR HAS ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

# Table of Contents

	General Safety Summary	V
	Service Safety Summary	vii
	Environmental Considerations	viii
User	nformation	
	Overview	11 13 14 14
	Setup	15
	In Detail General Guidelines Maximum Input Voltage Probe Grounding Probe Compensation Caring for the Probe Other Considerations Problems Encountered Using the Probe	17 17 110 113 115 120 121
	Specifications	123 123

## **Service Information**

Performance Verification	21
Adjustments	23 23
Test Equipment Required	23
Long-Form Procedure	25
Maintenance	211 212
Mechanical Disassembly and Assembly	213
Replaceable Parts	217 217
Using the Replaceable Faits List	210

## Index

# List of Figures

Figure 11: The P6015A High-Voltage Probe	12
Figure 12: Compensation Box with Readout Option	13
Figure 13: Assembling the P6015A	15
Figure 14: Maximum Input Voltage Derating (DC + Peak AC)	112
Figure 15: Peak Pulse Derating	113
Figure 16: Zones Affected by Compensation Adjustments	118
Figure 17: Humidity Derating Chart	126
Figure 18: Typical Input Impedance and Phase	126
Figure 21: Access to Long-Form Adjustments	25
Figure 22: Adjustment Locations	27
Figure 23: Periods Affected by Compensation Adjustments	28
Figure 24: Removal and Replacement of Probe Head	214
Figure 25: P6015A Exploded View	219

## List of Tables

Table 11: Maximum Input Voltage1,2,3	110
Table 12: Test Equipment Required for Short-Form Adjustment	116
Table 13: Warranted Electrical Characteristics	124
Table 14: Warranted Environmental Characteristics	125
Table 15: Typical Electrical Characteristics	127
Table 16: Nominal Mechanical Characteristics	128
Table 21: Test Equipment Required for Long-Form	24

## **General Safety Summary**

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

To avoid potential hazards, use this product only as specified.

Only qualified personnel should perform service procedures.

### To Avoid Fire or Personal Injury

Connect and Disconnect Properly. Do not connect or disconnect probes or test leads while they are connected to a voltage source.

Connect and Disconnect Properly. Connect the probe output to the measurement instrument before connecting the probe to the circuit under test. Connect the probe reference lead to the circuit under test before connecting the probe input. Disconnect the probe input and the probe reference lead from the circuit under test before disconnecting the probe from the measurement instrument.

Ground the Product. This product is indirectly grounded through the grounding conductor of the mainframe power cord. To avoid electric shock, the grounding conductor must be connected to earth ground. Before making connections to the input or output terminals of the product, ensure that the product is properly grounded.

Observe All Terminal Ratings. To avoid fire or shock hazard, observe all ratings and markings on the product. Consult the product manual for further ratings information before making connections to the product.

The inputs are not rated for connection to mains or Category II, III, or IV circuits.

Connect the probe reference lead to earth ground only.

Do not apply a potential to any terminal, including the common terminal, that exceeds the maximum rating of that terminal.

Do Not Operate Without Covers. Do not operate this product with covers or panels removed.

Do Not Operate With Suspected Failures. If you suspect there is damage to this product, have it inspected by qualified service personnel.

Avoid Exposed Circuitry. Do not touch exposed connections and components when power is present.

Do Not Operate in Wet/Damp Conditions.

Do Not Operate in an Explosive Atmosphere.

Keep Product Surfaces Clean and Dry.

#### Terms in this Manual

These terms may appear in this manual:



WARNING. Warning statements identify conditions or practices that could result in injury or loss of life.



CAUTION. Caution statements identify conditions or practices that could result in damage to this product or other property.

### Symbols and Terms on the Product

These terms may appear on the product:

- DANGER indicates an injury hazard immediately accessible as you read the marking.
- WARNING indicates an injury hazard not immediately accessible as you read the marking.
- CAUTION indicates a hazard to property including the product.

The following symbol(s) may appear on the product:



CAUTION Refer to Manual



WARNING High Voltage



Earth Terminal

以上内容仅为本文档的试下载部分,为可阅读页数的一半内容。如要下载或阅读全文,请访问: <a href="https://d.book118.com/05513020223">https://d.book118.com/05513020223</a>
3011112