

Tektronix®

COMMITTED TO EXCELLENCE

**PLEASE CHECK FOR CHANGE
INFORMATION AT THE REAR
OF THIS MANUAL.**

**213
DMM
OSCILLOSCOPE
WITH OPTIONS
OPERATORS**

Tektronix, Inc.
P.O. Box 500
Beaverton, Oregon 97077

070-1480-00

INSTRUCTION MANUAL

Serial Number _____ First Printing DEC 1974
Revised JUN 1981

TABLE OF CONTENTS

	PAGE
BEFORE OPERATING	1
Introduction	1
Safety Information	1
Probe Characteristics on 200-Series Instruments	2
Standard Accessories Included	4
Options	4
CONTROLS, CONNECTORS AND INDICATORS	5
Front Panel	5
Side Panel	6
Rear Panel	8
Probe Storage	9
OPERATING POWER INFORMATION	10
Internal Battery Operation	10
Battery Charging	10

TABLE OF CONTENTS (CONT.)

	PAGE
OPERATING POWER INFORMATION (continued)	
Power Line Operation	11
Operating Temperature	11
Power Line Fuse Replacement	11
Current (mA) Input Fuse Replacement	13
OPERATORS ADJUSTMENTS AND BASIC DISPLAYS	14
Operators Adjustments	14
Digital Multimeter Displays	15
Voltage Measurement Display	15
Current Measurement Display	16
Resistance Measurement Display	16
Overrange Display	16
Oscilloscope Displays	16
Normal Sweep Display	16
Magnified Sweep Display	17

TABLE OF CONTENTS (CONT.)

	PAGE
APPLICATIONS AND MEASUREMENTS	18
Preliminary Information	18
Common Connections	18
Measurement Precautions	18
RMS Considerations	19
Unknown Voltage and Current Measurements with DMM	19
Procedures	19
Peak-to-Peak AC Voltage	19
Instantaneous DC Voltages	20
Composite Voltage	21
Time Duration	23
Periodic Signal Frequency	23
Amplitude Comparison	24
Risetime	26
Elevated Reference Voltage	27
OPERATORS SPECIFICATIONS	28