

电子测量仪器选购指南

BUYER'S GUIDE OF
ELECTRONIC MEASUREMENT INSTRUMENTS



电子测量仪器选购指南

Buyer's Guide of
Electronic Measurement Instruments

学苑出版社

Xue Yuan Publishing House

1990 / 1991

编辑顾问 (Editorial Advisor):

金朱德	郭群芳	常新华	李锦林
许金寿	王人杰	杨治安	席德熊
吴 昕	边志强	郑慰亲	

责任编辑 (Executive Editor):

孙忠诚	李玉文	严小玲	郑燕诒
赵玉惠	崔德勋		

编辑 (Editor):

万春光	李树民	李德明	关志仁
林文光	张家浩	范建华	周华清
赵慕琴	徐根发	徐 舫	崔德铭

电子测量仪器选购指南 1990/1991

电子测量仪器选购指南 编辑部编

学苑出版社出版

(北京西四颁赏胡同四号)

人民交通出版社印刷厂印刷

787×1092 1/16 印张: 35.25 插页: 1 字数: 850 千字:

印数: 0001—5050 册

1990年8月第1版 1990年8月第1次印刷

ISBN 7-5077-0112-3/Z·15 定价: 35.00 元

顾问 (Advisor)

中国安徽阜阳无线电厂		徐向东
中国北京长城无线电厂	李先明	王仲三
中国北京大华无线电仪器厂	董鸿勋	杨富麟
中国北京无线电技术研究所		陈启麟
中国北京微电子技术应用研究所		李千祥
中国北京无线电仪器二厂	万工群	吴毅
中国北京无线电仪器厂	孙学彬	鲁尚贤
中国北京自动测试技术研究所		吴烈诩
中国北京航天航空部无线电计量测试研究所		任殿卿
中国光华无线电仪器厂	邹学良	何俊山
中国广州电子仪器厂		胡荣礼
中国南京电讯仪器厂	王关锦	包承浩
中国南京电子仪器厂		赖仪一
中国南京无线电仪器厂	吴 韧	王振乾
中国南通电子仪器厂		茅仁群
中国南通应用电子仪器厂		李英平
中国南通无线电仪器厂		潘汉树
中国宁波东风无线电厂	王康宁	郭君勋
中国前锋无线电仪器厂	任荣生	林眷玉
中国前卫无线电仪器厂	廉玉亭	王成义
中国上海无线电二十一厂	倪乃珍	赵忠奎
中国上海无线电仪器厂	沈健衡	郑典奎
中国上海无线电二十六厂	游念竹	冯惠萍
中国上海微波技术研究所	吕崇竹	郭志明
中国天津第二电子仪器厂		宋振英
中国天津电子仪器厂	武文斌	庞福田
中国天津无线电一厂		陈义力
中国天津无线电六厂	诸书元	洪英琪
中国潍坊计算机公司仪器厂	刘安平	孟宪梓
中国徐州电子仪器厂	朱 平	朱铁军
中国郑州无线电仪器厂		杨国安
香港嘉兆科技有限公司		郭汉华
中国惠普公司	任守勤	刘中凯
美国福禄克国际公司		周祥德
英国施伦伯杰仪器公司		邵达立
日本安立株式会社		松村英司
日本香山贸易株式会社	平野郁	张奎林
泰克(中国)有限公司	詹崇新 (Matthew Chan)	
西德罗德与施瓦茨公司	帕尔松 (K.Palsson)	
	白卡拉 (K.H. Beecara)	
	王云祥	

编辑说明

八十年代以来,在新技术革命推动下,电子测量仪器日趋智能化和小型化,其品种日益繁多,应用范围不断扩大,不仅对电子工业的发展有一定影响,而且在整个科学技术以及国民经济中的地位也日益提高,特别是在加强质量管理和提高产品质量方面起着重要的保障作用.为了帮助广大读者了解国内外电子测量仪器的发展,满足用户选购世界各国电子测量仪器的需要,我们根据现有资料,编辑了这本《国际电子测量仪器选购指南》,同时,为了方便各国用户,我们采用了中英文对照.

本《指南》是一本综合性工具书,全书共分为三部分.第一部分为产品名录,它汇集了我国和美、苏、英、法、日、联邦德国、荷兰、丹麦等国主要电子测量仪器厂商生产的主要电子测量仪器,尤其是近几年所生产的新型仪器,其中包括电压测试仪器、元器件测试仪器、信号发生器、示波器、信号分析仪、声学测试仪、通信测试仪、广播电视测试仪、数域仪器和医疗电子仪器等 20 大类.为了方便对比选择,将各国同类产品以表格的形式汇集在一起,并给出每一种仪器的生产厂商、型号、主要技术性能,部分仪器还附有参考价格.第二部分为产品介绍,它详细地介绍了国内外部分厂商的新产品性能,并附有照片和选购件.第三部分为厂家介绍和厂商名录,详细介绍了部分厂商并列出了世界主要电子测量仪器厂家的地址、电话、电报或电传.

为了便于广大读者使用此书,现作如下说明:

- 1.公司国名:国名一般以总公司所属而定.
- 2.主要技术性能:系指每种仪器的主要技术指标.限于篇幅,没有将各种技术指标一一列出.
- 3.参考价格:系指主机价格.一般不包括附件.由于各厂商的仪器价格不断变化,因而只能作为参考,不能作为定货依据.
- 4.选购件和附件:本《指南》未将它们一一列出,因此购买时,需要参阅详细资料,以免影响配套使用.

本书的 1987 年版本名为“国际电子测量仪器选购指南”,根据各方意见,现将 1990/1991 年版本改名为“电子测量仪器选购指南”.其内容仍与 1987 年版本相同,增加了国内外五十多家厂商的两千多个产品型号,并删减了一些废型产品.其中有些厂家未提供新样本,因此,仍然保留原来的产品.今后每两年出一次新版本,以便删旧增新.

在编辑出版过程中,得到各级领导机构及国内外仪器厂家及有关人员的热情帮助,在此一并表示衷心的感谢.

对本书之不足处,敬请广大读者批评指正.

PREFACE

Electronic instrumentation has gradually become more intelligent and miniaturized, promoted by new technology revolution since the beginning of 1980's. Varieties are increasingly abundant and applications are continuously extended. It not only influences development of the electronic industry, but also improves its position in the national economics and the whole science and technology. Especially it plays an important and secure part for strengthening quality control and improving product quality. We compiled the Buyer's Guide of International Electronic instruments on the basis of received information to help readers understand the development of domestic and foreign electronic instrumentation to meet user's needs for purchasing electronic instrumentation from various countries of the world. For convenience the guide is English-Chinese bilingual.

The guide is a comprehensive reference book. It is divided into three parts. The first part is a compilation of products which covers the electronic instruments produced by major manufacturers in China, U.S., Soviet Union, Britain, France, Japan, West Germany, Holland, Denmark with stress laid on new instruments. This part includes voltage meters, component testers, signal generators, oscilloscopes, signal analyzers, acoustic testers, communication testers, radio broadcast and TV testers, digital domain instruments and medical electronic instruments, totalling 20 categories. Various products of the same category are compiled in a form of tables, indicating manufacturers, models and major technical performance with reference prices attached for some instruments. The second part is the description of products, which describes in a detailed way performances of new products from some domestic or foreign manufacturers with product photos and options appended. The third part is the introduction to manufacturers and their list. It introduces some manufacturers in detail and lists their addresses, telephones, cables and telex.

For readers convenience we make following explanation:

1. Country of a company: Generally the country of a company is decided by the location of its headquarters.

2. Major technical specifications: Because of the limited space, only major technical specifications of an instrument are listed in the guide.

3. Reference price: The Price refers to the body(mainframe) of an instrument, excluding accessories. Since prices are continuously changed, the price in the guide are only for reference and cannot be regarded as basis of ordering.

4. Options and accessories: Options and accessories are not completely listed in the guide. Therefore, when purchasing, you need to read some detailed documents to avoid insufficient set buying.

The 1987 edition of this book is known as "Buyer's Guide of international Electronic Measurement Instruments". Now, the name of this book is changed to "Buyer's Guide of Electronic Measurement Instruments", according to suggestions of all circles concerned. The book are similar in its content to the version of 1987, but contains over two thousands more models of productions, manufactured by more than fifty manufacturers at home and abroad. Some abandoned products are eliminated and some products are remained as the manufacturers don't provide the new catalog. In future, we will publish the new version every two years, to update the contents of the book.

The guide is compiled and published with contribution by leaders at all levels and manufacturers at home and abroad, as well as personnels concerned. We express heartfelt thanks for their help. The reading public please oblige us with your comments on the deficiencies in the book.

目 录

Contents

第一部分 产品名录

Part I. Products Index

1. 电压测试仪器计量标准(Voltage Measurement Instruments and Metered Standards)	1
1.1 模拟万用表和模拟电压表(Analog Multimeters and Analog Voltmeters)	3
1.2 数字电压表和数字万用表(Digital Voltmeters and Digital Multimeters)	10
1.3 校准器(Calibrators)	35
1.4 漏电流测试仪(Leakage Current Measurement Instrument)	39
2. 功率测量仪器(Power Measuring Instruments)	40
2.1 功率计(Power Meters)	41
2.2 小功率量值传递装置(Small Power Transfer Set)	48
3. 频率、时间测量仪器(Frequency and Time Measurement Instruments)	49
3.1 频率计数器(Frequency Counters)	51
3.2 特种计数器(Particular Counters)	60
3.3 通用计数器和计时器(Universal Counters and Time-Counters)	60
3.4 频率标准(Frequency Standards)	66
3.5 校频设备(Frequency Calibrators)	67
4. 元件与材料测试仪(Component and Material Measuring Instruments)	69
4.1 电容测试仪(Capacitance Measuring Instruments)	70
4.2 阻抗测试仪(Impedance Measuring Instruments)	73
4.3 电感测试仪(Inductance Measuring Instruments)	81
4.4 LCR 测试仪器(LCR Measuring Instruments)	81
4.5 Q 表(Q Meters)	92
4.6 磁性材料测试仪器(Magnetic Material Measuring Instruments)	93
4.7 介质损耗测量仪器(Dielectric Loss Measurement Instruments)	93
4.8 石英阻抗表(Quartz Impedance Meters)	94
4.9 继电器测试仪(Relay Testers)	94

4.10 电位器测试仪(Potentiometer Test Instruments)·····	94
4.11 电阻标准样片(Standard Resistance Exemplar)·····	95
5. 器件测试仪(Measurement Instrument for Electronic Device) ·····	96
5.1 电子管测试仪(Electron Tube Measuring Instruments)·····	98
5.2 半导体分立器件测试仪(Semiconductor Discrete Device Testers)·····	98
(1)半导体分立器件测试仪(Semiconductor Discrete Device Testers)·····	98
(2)半导体分立器件测试仪校准器(Semiconductor Discrete Device Testers Calibrators)·····	108
5.3 集成电路测试仪(IC Testers)·····	109
(1)集成电路图示仪(IC Tracers)·····	109
(2)小规模/中规模集成电路测试仪(SSI/MSI IC Testers)·····	111
(3)LSI/VLSI 测试仪(LSI/VLSI Testers)·····	114
(4)存储器测试仪(Memory Testers)·····	115
(5)线性(模拟)集成电路测试仪[Linear (Analog) IC Test System]·····	117
6. 信号发生器(Signal Generators) ·····	118
6.1 信号发生器(Signal Generators)·····	122
6.2 扫频信号源(Sweep Generators)·····	140
6.3 频率合成器(Frequency Synthesizer)·····	145
6.4 函数发生器(Function Generators)·····	147
6.5 脉冲信号发生器(Pulse Generators)·····	160
6.6 任意波形发生器(Arbitrary Waveform Generators)·····	165
7. 示波器(Oscilloscopes) ·····	167
7.1 通用示波器(General Purpose Oscilloscopes)·····	169
7.2 模拟存储示波器(Analog Storage Oscilloscopes)·····	187
7.3 数字存储示波器(Digital Storage Oscilloscopes)·····	189
7.4 取样示波器(Sampling Oscilloscopes)·····	194
8. 信号分析测量仪器(Signal Analysing and Measuring Instruments) ·····	196
8.1 频谱分析仪(Spectrum Analyzers)·····	198
8.2 波形分析仪(Waveform Analyzers)·····	204
8.3 失真度仪(Distortion Meters)·····	206
8.4 调制度测试仪(Modulation Factor Testers)·····	208
8.5 噪声测试仪(Noise Measurement Instruments)·····	209
(1)噪声源(Noise Generators)·····	209
(2)噪声系数测试仪(Noise Factor Meters)·····	210

(3)相位噪声测试仪(Phase Noise Meters)	212
8.6 相位测试仪(Phase Measurement Instruments)	213
9. 电磁干扰 / 场强计(EMI & Field Strength Meters)	214
9.1 电磁干扰 / 场强计(EMI / Field-Strength Meters)	215
(1)电磁干扰 / 场强计(EMI / Field-Strength Meters)	215
(2)幅射危害计(Radiation Hazard Meters)	219
(3)其它(Other)	221
10. 网络分析仪(Network Analyzer)	222
10.1 网络分析仪(Network Analyzer)	223
11. 声学 & 振动仪器(Acoustics & Vibration Measuring Instruments)	227
11.1 声级计(Sound Level Meters)	228
11.2 测量放大器(Measuring Amplifiers)	229
11.3 电平记录仪(Lever Recorder)	230
11.4 抖动测量仪(Flutter Meters)	230
11.5 测量传声器(Measuring Microphones)	231
11.6 加速度计(Accelerometers)	233
11.7 可调带通滤波器(Tunable Band pass Filter)	234
11.8 功率放大器(Power Amplifiers)	235
11.9 动态信号分析仪(Dynamic Signal Analyzers)	235
12. 微波元件(Microwave Components)	237
12.1 射频检波器(RF Detectors)	238
(1)射频检波器(RF Detectors)	238
(2)波导晶体检波器(Waveguide Crystal Detector)	240
12.2 衰减器(Attenuator)	241
(1)固定衰减器(Fixed Attenuator)	241
(2)步进衰减器(Step Attenuator)	246
12.3 标准(Standard)	253
(1)衰减校准装置(Attenuation Calibration System)	253
(2)8mm 标准失配负载(8mm Standard Unmatched Load)	254
(3)同轴匹配负载(Coaxial Matched Load)	254
(4)波导元件系列(Waveguide Component Series)	255
(5)微波稳幅放大器(Microwave Stabilized Amplitude Amplifiers)	255
12.4 移相器(Phase Shifters)	255
13 通信测试仪(Communication Test Measuring Sets)	256

13.1 载波通信测试仪器(Carrier Communications Test Sets)	260
(1)电平振荡器(Level Oscillators).....	260
(2)选频电平表>Selective Level Meters)	262
(3)电平表(Level Meters)	266
(4)载波传输测试仪(Carrier Transmission Measuring Sets)	268
(5)其它载波传输测试仪(Other Carrier Transmission Sets)	271
13.2 微波、卫星通信测试仪器(Microwave and Satellite Communication Test Sets)	271
(1)调频线性检波器(FM Linear Detectors).....	271
(2)微波线路分析仪(Microwave Link Analyzers)	272
(3)微波测量设备(Microwave Measuring Equipments).....	272
(4)频率转换器(Frequency Converters)	272
13.3 通信线路测试仪(Communication Line Test Sets)	273
(1)话路特性测试仪(Voice Circuit Feature Tester).....	273
(2)电缆故障探测器(Cable Faults Locators)	274
(3)白噪声测试仪(White Noise Test Sets)	274
(4)杂音测试仪(Crosstalk Meters)	275
(5)可变衰减器(Variable Attenuators).....	275
13.4 数字通信测试仪(Digital Communication Test Sets)	277
(1)误码率测试仪(Error Rate Measuring Equipments)	277
a. 比特误码率测试仪(Bit Error Measuring Sets)	277
b. 双极误码检测仪(Bipolar Error Detectors)	279
c. 误码率测试仪(Error Rate Measuring Instrument).....	280
(2)相抖测试仪(Phase Jitter Tester)	280
a. 抖动发生器和接收机(Jitter Generator and Receivers)	280
b. 抖动发生器(Jitter Generators)	280
c. 抖动计(Jitter Meters)	281
d. 抖动发生器及测试仪(Jitter Generator and Measurement Sets)	281
e. 抖动调制器(Jitter Modulators).....	281
(3)数字传输分析仪(Digital Transmission Analyzer).....	282
a. PCM 线路测试仪(PCM Line Test Sets)	283
b. PCM 终端测试仪(PCM Terminal Test Sets)	283
c. PCM 多路测试仪(PCM Multiplex Tester)	284
d. PCM 数字信号发生器(PCM Digital Signal Generators)	284

e. PCM 数字信号分析仪(PCM Digital Signal Analyzer)	284
13.5 数据通信测试仪(Data Communication Test Sets)	285
(1)数据线路分析仪(Data Line Analyzers)	285
(2)规约分析仪(Protocol Analyzers)	286
13.6 无线电通信测试仪(Radio Communication Test Sets)	287
(1)移动式无线电测试仪(Mobile Radio Test Sets)	287
(2)无线电通信测试仪(Radio Communication Test Sets)	288
14. 广播电视测量仪器(Measurement Instruments for Broadcasting and Television)	291
14.1 电视测试信号和彩色电视图象发生器(TV Test Signal and TV Colour Pattern Generators)	293
14.2 电视视频测量仪器(TV Video Measurement Instruments)	296
14.3 电视广播测试设备(TV Broadcast Test Equipments)	299
14.4 电视调制器(TV Modulators)	299
14.5 电视解调器(TV Demodulators)	301
14.6 广播电视专用扫频仪(Sweep Generators for Radio Receivers and TV)	301
14.7 立体声发生器(Stereo Generators)	304
14.8 立体声失真表和电压表(Stereo Distortion Meters and Voltage Meters)	306
14.9 其它电视测量仪器(Other Measurement Instruments for TV)	307
15. 数域仪器(Data Domain Measuring Instruments)	308
15.1 逻辑分析仪(Logic Analyzers)	312
15.2 微处理器开发系统(Microprocessor Development Systems)	316
15.3 数据采集系统(Data Acquisition Systems)	323
15.4 印制电路板测试仪(PCB Tester)	324
(1)印制板连线测试仪(Continuity Board Testers)	324
(2)印制电路板在线测试仪(In-Circuit Board Testers)	326
(3)印制电路板功能测试仪(Functional Board Testers)	327
(4)印制电路板组合测试仪(Combinational Board Testers)	328
(5)印制电路特性测试仪(Performance Board Testers)	329
(6)印制板老化测试仪(Burn-In Board Testers)	330
(7)老化/环境应力测试仪(Burn-In / Environmental Stress Tester)	330
16. 记录仪和绘图仪(Recorder and Plotter)	331
16.1 x-y / y-t 记录仪和笔记录仪(x-y / y-t Recorders and Pen Recorders)	333
16.2 模拟 x-y / y-t 平板绘图仪(Flatbed Analogue x-y / y-t Plotters)	338

16.3 打印机(Printers)	340
17. 光纤测试仪器(Measuring Instruments for Optical Fiber)	351
17.1 光源(Light Sources)	353
17.2 光功率计(Optical Power Meters)	355
17.3 光谱分析仪(Optical Spectrum Analyzers)	357
17.4 光时域反射计(Optical Time Domain Reflectometer)	358
17.5 光波长计(Optical Wavelength Meters)	358
17.6 光电转换器(O / E Converters)	359
17.7 电光转换器(E / O Converters)	359
17.8 光纤传输测量系统(Optical Fiber Transmission Measuring Systems)	360
17.9 光纤测试仪(Optical Fiber Testers)	360
18. 电源(Power Supplies)	361
18.1 开关电源(Switching Power Supply)	363
18.2 不间断电源(Uninterrupted Power Supply)	365
18.3 交流稳压电源(AC Regulated Voltage Power Supply)	366
18.4 实验室电源(Laboratory Power Supply)	369
18.5 线性电源(Linear Power Supply)	377
19. 电子医疗仪器(Electronic Medical Instruments)	382
19.1 电生理参数测试仪(Electric Physiology Parameter Tester)	384
19.2 超声诊断仪(Ultrasound Diagnosis Instruments)	385
19.3 生化分析仪器(Biochemistry Analyzers)	387
19.4 医用激光治疗仪(Medical Laser Therapeutic Apparatus)	388
19.5 大型图象显示诊断和治疗设备(Large-Sized Image Display Equipment for Diagnosis and Treatment)	390
19.6 监护仪(Monitor)	391
19.7 肺功能测量仪(Lung Function Tester)	393
19.8 针灸经络仪(Acupuncture Stimulators & Channels and Collaterals Apparatus)	394
19.9 理疗仪器(Physiotherapeutic Apparatus)	395
20. 电子应用仪器(Electronic Application Instruments)	397

第二部分 产品介绍

Part II Products Introduction

中国安徽省阜阳无线电厂(China Anhui Province Fuyang Radio Factory)

XD11 多用信号发生器(XD11 Multifunctional Signal Generator)	403
XD12 多用信号发生器(XD12 Multifunctional Signal Generator).....	403
XD11B 多用函数发生器(XD11B Much Usable Function Generator)	403
XD22H 多用信号发生器(XD22H Multifunctional Signal Generator)	403
XO10 精密超低失真标准信号发生器(XO10 Precision Ultra-Low Distortion Standard Signal Generator)	404
XD1A 精密超低失真标准信号发生器(XD1A Precision Ultra-Low Distortion Standard Signal Generator)	404
XD7-S 低频信号发生器(XD7-S Low Frequency Signal Generator)	404
XD1 低频信号发生器(XD1 Low Frequency Signal Generator)	404
XD2H 低频信号发生器(XD2H Low Frequency Signal Generator)	404
WYJ-201 双路直流稳压电源(WYJ-201 Dual Channel DC Regulated Power Supply)	405
WYJ-202 双路直流稳压电源(WYJ-202 Dual Channel DC Regulated Power Supply)	405
WYJ-203 双路直流稳压电源(WYJ-203 Dual Channel DC Regulated Power Supply)	405
WYJ-205S 双路数显直流稳压电源(WYJ-205S Dual Channel Digital Display DC Regulated Power Supply)	405
WYJ-401 四路直流稳压电源(WYJ-401 Four Channel DC Regulated Power Supply)	405
WYJ-402 四路直流稳压电源(WYJ-402 Four Channel DC Regulated Power Supply)	405
WY-8801 移动电话专用电源(WY8801 Special Power Supply for Moving Telephone)	406
KDR-1B 智能导热系数瞬态测定仪(KDR-1B Intelligent Transitory Heat Conductivity Tester)	406
KF-3 智能人体放射免疫测量分析仪(KF-3 Intelligent Human Body Radiation Immunization Test and Analysis Instrument)	406
XD-41 智能优化施肥诊断仪(XD-41 Intelligent	

Qualified Manurance Diagnostic Instrument)	406
中国北京长城无线电厂(China Beijing Great Wall Radio Factory)	
JS5973 抖晃测量仪(JS5973 Wow Flutter Meter)	407
中国北京大华无线电仪器厂(China Beijing Dahua Radio Instrument Factory)	
DH3181 高速在线测试系统(DH3181 High Speed In-circuit Test System)	408
DH3382 自动微波频率计数器(DH3382 Automatic Microwave Frequency Counter)	409
中国北京微电子技术应用研究所(China Beijing Microelectronic Technology Application Institute)	
MEC6350 可编程开关(MEC6350 Programmable Control Switch)	410
MEC6320 仪器控制器(MEC6320 Instrument Controller)	411
中国北京无线电二厂(China Beijing NO.2 Radio Instrument Factory)	
ZN4122 超低失真度测量仪(ZN4122 Ultra -Low Distortion Meter)	412
中国北京无线电仪器厂(China Beijing Radio Instrument Factory)	
BJ4840 线性集成电路图示仪(BJ4840 Linear IC Curve Tracer)	413
中大规模数字集成电路测试系统(Medium and Large Scall Digital IC Test System)	414
中国北京自动测试技术研究所(China Beijing Automatic Testing Technology Institute)	
BC3110X 数字集成电路测试系统(BC3110X Digital IC Test System)	415
BC3180X 线性集成电路测试系统(BC3180X Linear IC Test System)	415
中国光华无线电仪器厂(China Guanghua Radio Instrument Factory)	
HW1 微波网络分析仪(HW1 Microwave Network Analyzer)	416
GH3123 集成电路测试仪(GH3123 Integrated Circuit Tester)	417
GX12MIB 功率指示器(GX12MIB Power Indicator)	417
GH2462 通过式双定向功率计(GH2462 Through Type Two Directional Power Meter)	418
XB34A 微波信号发生器(XB34A Microwave Signal Generator)	419
GH3701 精密衰减校准装置(GH3701 Precise Attenuation Calibration Set)	419
GH4821 晶体管特性图示仪(GH4821 Transistor Characteristic Curve Tracer)	420
中国广州电子仪器厂(China Guangzhou Electronic Instrument Factory)	
DA-1 电气安全参数测试仪(DA-1 Electric Safety Parameters Tester)	421
中国南京电讯仪器厂(China Nanjing Telecommunication Instrument Factory)	
EE3382 微波频率计(EE3382 Microwave Frequency Meter)	422
EE3376 可编程通用计数器(EE3376 Program Controlled Universal Counter)	422

EE3364 可编程通用计数器(EE3364 Program Controlled Universal Counter)	423
EE1631 / 1632 函数 / 脉冲发生器(EE1631 / 1632 Function / Pulse Generator) ...	423
中国南京电子仪器厂(China Nanjing Electronic Instrument Factory)	424
BT3 频率特性测试仪(BT3 Frequency Characteristics Tester)	424
BT3J 频率特性测试仪(BT3J Frequency Characteristics Tester)	424
BT20 扫频图示仪(BT20 Sweep Frequency Graphic Display)	424
TX1311 甚高频扫频信号发生器(TX1311 VHF Sweep Generator)	424
TX5361 电视扫频信号发生器(TX5361 TV Sweep Generator)	425
TX4861 显示器(TX4861 Display)	425
BWB-25 单边带电台综合测试仪(BWB-25 Single Sideband Radio Station Integral Tester)	425
TYB411-Ⅱ 载波通路特性程控测试仪(TYB411-Ⅱ Program Controlled Carrier Channel Characteristics Tester)	425
中国南京无线电仪器厂(China Nanjing Radio Instrument Factory)	
NW1252 扫频信号源(NW1252 Sweep Generator)	426
NW6270 频谱分析仪(NW6270 Spectrum Analyzer)	426
NW6230 振动分析仪(NW6230 Vibration Analyzer)	426
NW6231 振动分析仪(NW6231 Vibration Analyzer)	426
JK40, 4060, 120 电脑监视器(JK40, 4060, 120 Computer Monitor)	426
中国南通电子仪器厂(China Nantong Electronic Instrument Factory)	
NF1641 函数发生器(NF1641 Function Generator)	427
NF9501 多功能微波治疗仪(NF9501 Multifunctional Microwave Therapy Apparatus)	427
中国南通应用电子仪器厂(China Nantong Electronic Application Instrument Factory)	
ZO 系列氧化锆氧分析仪(ZO Series Oxygen Analyzer by Zirconium Oxide)	428
CS-ⅢA 微电脑碳硫分析仪(CS-ⅢA Microprocessor based Carbon and Sulfur Analyzer)	429
CS-Ⅳ 气容法碳硫分析仪(CS-Ⅳ Gas Volume Method Carbon and Sulfur Analyzer)	429
中国南通无线电仪器厂(China Nantong Radio Instrument Factory)	
FJ2816 LCZ 自动测量仪(FJ2816 LCZ Auto Measurement Instrument)	430
FJ5481 开关变压器动态测试仪(FJ5481 Dynamic Tester for Switching Transformer)	430
FJ261 电容自动测量仪(FJ261 Auto Capacity Measurement Instrument)	431

中国宁波东风无线电厂(China Ningbo Dongfeng Radio Factory)

DF1691 多功能任意波形发生器(DF1691 Multipurpose Arbitrary Waveform Generator)	432
XO10A 精密信号发生器(XO10A Precise Signal Generator)	433
DF1412AM / Φ M 频率合成器(DF1412AM / Φ M Frequency Synthesizer)	434
DF1640 函数发生器(DF1640 Function Generator)	435
DF4074W 多通道 FFT 信号分析仪(DF4074W Multichannels FFT Signal Analyzer)	436

中国前锋无线电仪器厂(China Qianfeng Radio Instrument Factory)

QF4132 调制度测量仪(QF4132 Modulation factor Measurement Instrument)	437
QF1480 合成信号发生器(QF1480 Synthesizer Signal Generator)	437
QF1055 标准信号发生器(QF1055 Standard Signal Generator)	438
QF1090 标准信号发生器(QF1090 Standard Signal Generator)	439
QF1076 标准信号发生器(QF1076 Standard Signal Generator)	439
QF1054 标准信号发生器(QF1054 Standard Signal Generator)	440
QF1022 音频信号发生器(QF1022 Audio Signal Generator)	440
QF2281 超高频自动数字毫伏表(QF2281 UHF Automatic Digital Millivoltmeter)	441
QF4030 多功能频谱分析仪(QF4030 Multifunctional Spectrum Analyzer)	441
QF4031 频谱分析仪(QF4031 Spectrum Analyzer)	442

中国前卫无线电仪器厂(China Qianwei Radio Instrument Factory)

QW1525 双脉冲功率信号发生器(QW1525 Double Pulse Power Signal Generator)	443
QW1640 函数信号发生器(QW1640 Function Signal Generator)	444
QW1712 系列 双路直流稳压稳流电源(QW1712 Series Constant Voltage—Constant Current Double Output DC Power Supplies)	445

中国上海无线电二十一厂(China Shanghai No.21 Radio Factory)

XJ4361 / 4362 100MHz 双踪便携式示波器(XJ4361 / 4362 100MHz Dual-CH. Portable Oscilloscope)	446
--	-----

中国上海无线电仪器厂(China Shanghai Radio Instrument Factory)

S861 S863 系列光栅数显器(S861 S863 Series Grating Readout Systems)	447
S305A 全频道彩色电视信号发生器(S305A Color TV Test Pattern Generator)	448

**中国上海微波技术研究所(China Shanghai Research Institute of
Microwave Technology)**

3712 毫米波程控衰减器(3712 Programm Controlled mm-wave Attenuator) 449

中国天津第二电子仪器厂(China Tianjing No.2 Electronic Instrument Factory)

ED4070 数字式频谱分析仪(ED4070 Digital Spectrum Analyzer) 450

ED2814RCL 自动测量仪(ED2814 RCL Automatic Measurement
Instrument) 450

中国天津电子仪器厂(China Tianjing Electronic Instrument Factory)

TD1250 频率响应分析仪(TD1250 Frequency Response Analyzer) 451

TD4440 数字存储示波器(TD4440 Digital Storage Oscilloscope) 452

TD1914A 交流数字毫伏表(TD1914A AC Digital Millivoltmeter) 452

TD4652 10MHz 超低频双踪示波器(TD4652 10MHz Ultra-Low
Frequency Two-trace Oscilloscope) 453

中国天津无线电六厂(China Tianjing No.6 Radio Factory)

YY2811(WK4225)自动 LCR 测量仪(YY2811 <WK4225>
LCR Automatic Measurement Instrument) 454

YY2810(401)自动 LCR 数字电桥(YY2810 <WK401>
Automatic LCR Digibridge) 455

中国潍坊计算机公司仪器厂(China Weifang Computer Corp. Instruments Div.)

WS1471 频率合成信号发生器(WS1471 Frequency Synthesized
Signal Generator) 456

DO30-B、DO30-D、DO30-E 数字式三用表校验仪
(DO30-B、DO30-D、DO30-E Digital Multimeter Calibrators) 457

中国徐州电子仪器厂(China Xuzhou Electronic Instrument Factory)

TS1260 全景扫频仪(TS1260 Panoramic Sweep Generator) 459

TS1253 程控声表面波滤波器测试仪(TS1253 Programmable Control
Tester for Sound Surface Wave Filter) 459

BCCX-1001B 超微处理彩色显示仪(BCCX-1001 Colour Micro
Treatmentprocessing Display for B Type Ultrasound Diagnosis Instrument) ... 459

中国扬中电子仪器厂(China Yangzhong Electronic Instrument Factory)

YB4361 双踪四迹示波器(YB4361 Dual Channels Four Traces Oscilloscope) 460

YB4312 扫描自动跟踪示波器(YB4312 Auto Frequency Tracking Oscilloscope) ... 461

YB4331 三踪六迹自动交替双时基示波器(YB4311 3 Channels 6 Traces
Auto ALT Dual Timebase Oscilloscope) 461