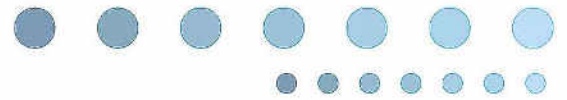


scientific[®]

Since 1963



- ✓ Reliability
- ✓ Repeatability
- ✓ Performance
- ✓ Value

- Test & Measuring Instruments
- Power Supplies
- EMI & EMC Solutions
- Electrical Test Instruments

2017
Compact Catalogue

Oscilloscopes



Analog Oscilloscopes
30MHz, Dual Channel
1mV Sensitivity, 2/4 trace
Built in Frequency Counter



Power Scope
30MHz, Dual Isolated Channel
Differential Input Voltage : 1500V
Built in Frequency Counter



DSO : SMO1000 Series
50 -100MHz Dual Channel
RTS 1Sa/s, Memory 2Mpts
PC Interfacing Software



DSO : SMO1000B Series
70-300MHz, Two / Four Channels
RTS 2GSa/s, Memory 24kpts
32 Automatic Measurements



DSO : SMO1000E Series
100 / 200MHz Dual Channel
RTS 1GSa/s, Memory 14Mpts
Serial Decode/Trigger Function



MSO : SMO1000A Series
100 / 200MHz with and without FG
RTS 1GSa/s, Memory 14Mpts
16 Channel Logic Input



MSO : SMO2000X Series
70-300MHz, 2/4 Channel, with FG
RTS 2GSa/s, Memory 140Mpts
16 Channel Logic Input



Handheld DSO
60-200MHz, Dual Isolated Channels
RTS 1GSa/s, Memory upto 1Mpts
Built in DMM

Function/ Arbitrary Waveform Generators



Function Generators
2-10 MHz, Upto 20Vpp
Internal Sweep Generator
Built in Frequency Counter



3 in 1: FG-FC-PS
3MHz Function Generator
15MHz Frequency Counter
15V / 1A, Triple Power Supply



Arbitrary Waveform Generator
5- 120 MHz, 1/ 2 Channel
Sampling Rate upto 1.2GSa/s
16 bit Vertical Resolution



Pulse Generators
2mHz-20MHz, Dual Output
Pulse Duration 20ns -20s
Internal, External & Manual Triggering

Digital Multimeters



Hand Held Multimeters
3 $\frac{3}{4}$ & 4 $\frac{1}{2}$ Digital Display
True RMS, Auto / Manual Ranging
PC Interfacing Software



Bench Top 4 $\frac{1}{2}$ DMM
22000 Count Dual Display
True RMS, Auto / Manual Ranging
PC Interfacing Software



Bench Top 5 $\frac{1}{2}$ DMM
Programmable True RMS
240,000 Counts
PC Interfacing Software



Bench Top 6 $\frac{1}{2}$ DMM
Programmable True RMS
2,200,000 Counts
Frequency Counter

LCR Meters & Impedance Analyzers



Hand Held LCR Meter
L,C,R,|Z|,DCR,D,Q, θ ,ESR
Accuracy : 0.1%
Test Freq :100,120Hz,1,10,100kHz



Bench Top LCR Meters
L,C,R,|Z|,G,B,D,Q, θ ,ESR
Accuracy : 0.2%
Test Freq : 100Hz - 25kHz



Precision LCR Meters
L,C,R,|Z|,Y,I,X,B,G,D,Q, θ ,DCR
Accuracy : 0.05%
Test freq : 100kHz-2MHz



Impedance Analyzer
L,C,R,Q, Tan Delta,Z, θ
Accuracy : 0.1%
Test Freq : 1 μ Hz-50MHz

Spectrum Analyzers/EMC Precompliance Setup



Spectrum Analyzers :
9kHz to 2.1 / 3.2GHz
-161dBm DANL , Min. 10Hz RBW
EMC Pre-compliance



LISN
Upto 1500A,
9kHz to 30MHz/150MHz
CISPR16 / MIL461 / CISPR25



NF & HF Spectrum Analyzers
10kHz-9.4GHz
RBW : 0.3Hz-50MHz
Demodulator : AM, FM, PM, GSM



Real Time Spectrum Analyzers
6GHz, 8GHz, 9.4GHz, 20GHz
175MHz Real-time Bandwidth
POI Below 1µs, IQ Generator

Network Analyzers



Planar Series
Freq. Range : 100kHz-8.0GHz
Two/Four Ports
Meas Speed : 100µs/point
Upto 500001 meas point per sweep



Cobalt Series
Freq. Range : 0.1MHz-20.0GHz
Two/Four Ports
Meas Speed : 10µs/point
Upto 500001 meas point per sweep



CobaltFX Series
Freq. Range : 50-110.0GHz
Two/Four Ports
Meas Speed : 10µs/point



Reflectometer
Freq. Range : 85MHz-14GHz
Single Port,
S₁₁ as log magnitude DFT, Smith & more
100001 measurement point / sweep

Power Analyzers



PPA500/1500 Series
Basic Accuracy 0.05%
BW : DC-500kHz
Sampling rate: 1MSa/s, No gap



PPA3500 Series (6 Channels)
Basic Accuracy 0.04%
BW : DC-1MHz
Sampling rate : 1MSa/s, No gap



PPA4500
Basic Accuracy 0.03%
BW : DC-2MHz
Sampling rate : 2.2MSa/s, No gap



PPA5500
Basic Accuracy 0.01%
BW : DC-2MHz
Sampling rate : 2.2MSa/s, No gap

Frequency Response Analyzers



PSM 1700
Freq. Range : DC-1MHz
Basic Accuracy : 0.02dB, 0.02°
Built in : LCR Meter, Vector Voltmeter, True RMS Voltmeter, Power Meter, Harmonic Analyzer in all PSM series



PSM 1735
Freq. Range : DC-35MHz
Basic Accuracy : 0.01dB, 0.01°



PSM 3750
Freq. Range : DC-50MHz
Basic Accuracy : 0.01dB 0.025°



SFRA45
Freq. Range : 5Hz-45MHz
Basic Accuracy : 0.02dB 0.05°
Compliance to IEC 60076-18

Data Loggers



GL100 Series
Compact Handheld
Temp./RH/Volt/Acc/
CO2/Illuminance
Wireless LAN option



GL240/GL840 Series
10 Channels (Expandable upto 200)
Upto 10ms Sampling interval
7" Wide Colour LCD
LAN, USB, SD Card



GL900 Series
Multifunction i/p on isolated 4/8 Ch
Voltage : ±20mV - ±500V
Can be used as an X-Y recorder
Software real time data capture



GL7000 Series
Sampling Speed upto 1MSa/s
Multi-channels upto 112 Channels
High Voltage 1000V
Memory capacity upto 64GB SSD

Power Supplies



PSD3000 Series
0-30V DC, 0-5A DC
Upto 195W, Single/Dual/Multiple
Tracking Outputs



PSD3210
0-32V DC / 0-10A DC
320W, Single Output
Load & Line Regulation : 0.01%



PSD3210-2
2 x 0-32V DC / 2 x 0-10A DC
640W, Dual Output
Load & Line Regulation : 0.01%



PSD4000 Series
0-32V DC / 0-3A DC
Single/Dual/Trippl Output
Load & Line Regulation : 0.01%

Programmable DC Power Supplies



PSD7300 Series : 220W
2 x 0-32V / 1 x 2.5/3.3/5V DC / 3.2A
Arbitrary Function,
USB, LAN, PC Software



ES150/300 Series : 150W/300W
0-300V / 0-10A DC,
Analog Interface,
Arbitrary Function, Remote Control,



SM800 Series : 800W
0-400V / 0-80A DC
Analog Interface,
Arbitrary Function, Remote Control,



DCX / DCA Series : 800W
0-600V / 0-80A DC, Multi Ranging
Power Arbitrary Function
RS232, RS485, USB, Analog



SM1500 Series : 1500W
0-400V / 0-100A DC, Auto Ranging
Analog Interface, Arbitrary Function
Single Phase, Rack Mount, 2U



SM3300 Series : 3300W
0-660V / 0-220A DC, Auto Ranging
Built in Ethernet with sequencer
Single/Three Phase, Rack Mount, 2U



SM6000 Series : 6000W
0-600V / 0-400A DC
Analog Interface, Arbitrary Function
Three Phase, Rack Mount, 4U



MS & MT Series : 30kW to 2000kW+
0-4000V / 0-24000A DC
Floor Standing Cabinet



SL Series : 1.5kW to 6kW
0-1000V / 0-250A DC
Rack-mount, 1U
Isolated Analog, RS232, Remote Interface Software, IVI Drivers for integration into variety of Programs

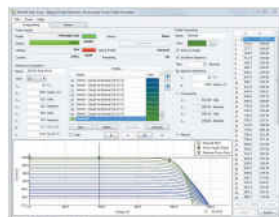


XR Series : 2kW to 10kW
0-10000V / 0-600A DC
Rack-mount, 2U



TS Series : 5kW to 45kW
0-4000V / 0-2700A DC
Rack-mount, 3U to 9U

PV Solar Simulator Software



Automatic Voltage & Current Profile calculation with ref. parameters
Auto sequencing through power profiles at user defined rates
Graphical profile view, Customized Data logging, Curve Import & Export

Battery Chargers



70W-1800W
Intelligent charger for Li-Ion /
Lead Acid / AGM / VRLA Batteries

DC-DC converter for Vehicles



70W-600W
Rugged galvanically isolated DC-DC
converter for vehicles and Industrial truck

Regenerative Bi-Directional Power Supplies



SM15K Series
Voltage Range : 0-500V
Current : -90 to 90A
Wattage : 15kW Source & Sink
Sink Power fed back into the grid

For Electrical & Hybrid Vehicles Testing



ERS Series
Voltage : 0-1000V
Current : $\pm 1200A$
Wattage : $\pm 20kW$ to $\pm 750kW$

2/4 Quadrant Power Supplies



DCPS Series
6.75kW-160kW
1 Ch O/P : 20 to 750V, 0 to $\pm 55A$
3 Ch O/P : 20 to 750V, 0 to $\pm 185A$ /ch
Bipolar O/P : -350 to +350V, 0 to $\pm 185A$

Grid Emulator 4 Quadrant PS



GE-AC&DC Series
7.5-200kVA / 6.75kW-160kW
AC Output : 25-277Vrms, p-n
43-480Vrms, p-p
Upto 230Arms per phase, 10-400Hz

Programmable AC(+DC) Source



N4A Series
Output Power 3kVA-200kVA
Output Current 10Arms-75Arms
Output THD <0.3%

DC Electronic Loads



ALX/ARX Series (Air Cooled)
Power: 1.25kW-40.5kW
Voltage: 0-200 to 0-1000Vdc
Current: 0-15 to 0-600 Adc



WRX Series (Water Cooled)
Power: 12.5kW-100kW+
Voltage: 0-200 to 0-1000 Vdc
Current: 0-15 to 0-1040 Adc

AC&DC Regenerative Electronic Loads



EL-AC&DC Series
Power : 7.5-200kVA / 6.75-160kW
AC Output : 1 phase : upto 690Arms
3 phase : upto 230Arms

High Precision Power Supplies



PTNhp Series
Output Voltage upto 600V
Current upto 5000A
Stability < 10ppm



PNChp Series
Output Voltage upto 300kV
Current upto 10A
Stability < 10ppm



PHNhp Series
Output Voltage upto 60kV
Current upto 40A
Stability < 10ppm



PNC3p Series
Output Voltage upto 60kV
Current upto 10A
Stability < 10ppm

Magnet Power Supplies



PCU Series
Output Voltage upto 50V
Current upto 340A
Wattage upto 15KW
Current Stability = 6ppm over 8 Hr

Capacitor Charging Power Supplies



PNCcap Series
Voltage upto 60kV
Charging Capacity upto 3000J/S
Stability <100ppm

High Voltage Cassette Power Supplies



LNCE Series
Power upto 30W
Voltage upto 20kV
Current upto 100mA



NCE Series
Power upto 60W
Voltage upto 30kV
Current upto 600mA

Impulse Winding Testers



SME1203-1
 Impulse Voltage : 300V-3kV
 Comparison Methods : 4
 Sampling Rate : 40MSa/s



SME1200 Series (1/4 Channels)
 Impulse Voltage : 100V-10kV
 Comparison Methods : 4
 Sampling Rate : 100MSa/s

Hipot Testers



SME1110 / 1120 Series
 Output Voltage upto 5kV AC / 6kV DC
 1 / 4 / 8 Channel, AC / DC / IR Tester
 Leakage Current : 10mA / 20mA

Insulation Resistance Meters



SME1202 Series
 Test Voltage : 1V-1000V
 Resistance : 100kΩ-10TΩ
 Test Current : 1nA -1mA

Safety Testers

Impulse Testers as per IEC 60950



Mega Pulse PF65
 Impulse Voltage : 10kV
 Compliant to IEC60950, 60065 & 62368-1
 4MΩ load selector
 Sampling Rate : 40MSa/s



Mega Pulse 1.2x50-7PF39
 Impulse Voltage : 2kV-7kV
 Voltage Waveform : 1.2x50μs
 Compliant to IEC60950, 62368-1 & ITU-T



Mega Pulse 10x700-7PF39
 Impulse Voltage : 2kV-7kV
 Voltage Waveform : 10x700μs
 Compliant to IEC60950, 62368-1

Capacitor Discharge Testers



CDT Series
 Test Voltage : 90Vrms-270Vrms
 Test Current : 8A-16A
 Test time range : 0.5-10s

Hipot Testers



HT Series
 AC/DC Hipot upto 20kV
 Current upto 1A
 Portable & Rugged



HTT Series
 Hipot & Ground Continuity Function Tester
 3 Failure mode : High Leakage Current,
 Open Ground, Dielectric breakdown



GF-30 Series
 AC Output, 25A / 200A Constant Current
 to Ground Circuit with Resistance 0 to 0.1W
 Virtual Voltage Sense Circuit
 High Efficiency
 Safety Agency Requirements

Leakage Current Networks



LCB Series
 Leakage Current Box,
 Compliant to IEC60990 fig. 3,4,5
 IEC60950, IEC61010, IEC60335, IEC60065 etc.

Voltage / Current Amplifier



4-Quadrant Voltage & Current Amplifier
 Freq. Range : DC-1MHz, 100V / μs
 Voltage : ±75Vpk, Current : ±40A
 Upto 1200W Source, 800W Sink

Lab Power Amplifiers



LPA01/LPA400
 O/P Power : 1MHz
 O/P Consumed : upto 800Vpp
 Isolate : BNC



LPA05
 BW upto 1MHz
 Output Voltage : 40Vpp
 Isolate I/P & : BNC

Selective Level Meters



Freq Range 5Hz-5MHz
 Single / Dual Freq SLM
 Built in SG, LCR Meter, OSC
 VSWR Meter, FRA

EMI Recivers



TDEMI X Series

Freq: 10Hz-40GHz
Full Compliance to CISPR16
Modes of Operation : EMI Rx, RT EMI Rx,
Spectrum Analyzer, RT SA, Oscilloscope
Real time BW: Max. upto 325MHz



TDEMI M+ Series

Freq: 10Hz-6GHz
Full Compliance to CISPR16
Battery operation possible
Real time BW : Max. upto 162.5MHz



TDEMI M Series

Freq: 10Hz-6GHz
Full Compliance to CISPR16
Battery operation possible
Real time BW : Max. upto 162.5MHz



Laplace SA1000/3000 Series

Freq : 9kHz-1/3GHz
Full Compliant
Tracking generator Option
Pre-selector optional external

Line Impedance Stabilization Network



Single phase / 2 wire

16A-100A / 200A
As per CISPR 16-1-2
Freq : 9kHz-30MHz



Three phase / 4 wire

32A-400A
As per CISPR 16-1-2
Freq : 9kHz-30MHz



MIL / DO160 Standard

25A-1500A
As per MIL 461E/F, DO160
Freq: (9kHz)150kHz-30MHz(100MHz)



Automotive Standard

25A-400A
As per CISPR 25 /ISO7637
Freq : 100kHz-150MHz

Antennas



Log Periodic Antenna

Freq upto 18GHz
50 ohm connector
Application : Emission measurement
& Immunity Testing



Biconical Antenna

Freq upto 1GHz
50 ohm connector
Application : Emission measurement
& Immunity Testing



Horn Antenna

Freq. upto 40GHz
Double Ridged Linear Polarized
Application : Emission measurement
& Immunity Testing



Handheld Log Periodic Antenna

Freq upto 20GHz
50 ohm connector
Application : Emission measurement
site surveys

Test Solution for Non RF Conducted Immunity



Surge Generator

As per IEC 61000-4-5, IEC 60
Surge voltage pulse : 1.2/50µs
Amplitude 0.2-4.4kV
Surge Current Pulse : 8/20µs,
Amplitude 0.1-2.2kA



Burst Generator

As per IEC61000-4-4
2 MHz single spike to continuous burst
5000 pulses/sec, 500/package
RS232 Interface



ESD Simulator

Upto 16.5kV-30kV
Fixed & Changeable RC modules
For Commercial Automotive, & MIL
Application (Automotive)



Voltage Interruption Simulator

As per IEC61000-4-11, IEC61000-4-293
AC, AC+DC Ramp function selection
Interrupted in any phase for a defined time
Voltage dips between rated & variable voltage

Test Solution for RF conducted Immunity



According to IEC / EN 61000-4-6
150 kHz to 230 MHz with 75 W amplifier
Extensive additions for immunity tests,
CDN accessories coupling & decoupling
devices available



Synthesizer & Interface Unit
Power Amplifier
A comprehensive Range of CDNs



Harmonic and Flicker Analyzer setup
with Clean power source and software
Fully compliant to IEC61000-3-2,
IEC61000-3-3, IEC61000-3-11,
IEC61000-3-12



6kVA Single phase,
18 / 30 / 67 / 100kVA Three phase
Fully compliant to IEC61000-3-2,
IEC61000-3-3, IEC61000-3-11,
IEC61000-3-12

Soldering & Rework Tools



LF389D/LF399D
60W/80W Soldering Station
Temperature Range 150-480°C
ESD Safe



LF880
100W Soldering / Desoldering Station
Temperature Range 150-480°C
ESD Safe



LF853D
100W/600W SMD Rework Station
Temperature Range 100-480°C
ESD Safe



IR860
150W/650W SMD/BGA Rework Station
Temperature Range 45-350°C
ESD Safe

Industrial & Laboratory Work Benches



Probes & Accessories

Switchable Probes
x1/x10, x1/x100, upto 300MHz



High Voltage Probe
x1000, 15kV



High Voltage Probe
x1000, 40kV



16 Channel Logic Probe



Active Probe
x10, 1.2GHz



Near Field Probe Set



50 Ohms Termination



Active Differential Probes
DC-100MHz / upto 7000V



Current Probes
Upto 70Arms / 200App



Current Probes
Upto 500Arms / 750App



HV Probes



Transient Limiter



AC Current Clamp
1A to 3000A



AC / DC Current Clamp
50A to 5000A



High Frequency Current Shunt
3A/6A/10A



High Frequency Current Shunt
100A / 200A



High Frequency Current Shunt
500A



AC Current Transducer



Transimpedance Amplifier



Power Adaptor



Single Phase Breakout Box



Ultra Low Capacitance Probe
DC-2MHz



Injection Transformer
1kHz-35MHz



Phase Controlled Inrush Switch
10Arms 300A peak



4 Terminal Kelvin Test Leads



4 Terminal Test Leads
for Transformer



SMD Test Fixture



4 Terminal Test Fixture



SMD Kelvin test tweezers



Glided Shorting Plate



scientific®

Scientific Mes-Technik Pvt. Ltd.,

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