

Integrated Services and Consultancy (ISC), a ESA Group Company, is a leading provider of electronic test and measuring instruments for industry and educational institutions since 1993. ISC has a team of highly competent professionals who have excellent experience in building laboratory work benches both for academia and industry.

Test & Measuring Instruments for Engineering Laboratories

















40 Years of Reput & Trust

We take prides in creating more than 40 years of satisfied customer experiences throughout the world. Today, GW Instek is considered the most Reliable Brand for professional measurement instruments with supreme quality and the lowest TCO - Total Cost per Ownership. We invite you to be part of GW Instek success story and help perpetuate this value.



Uncompromised Durability

With an overriding commitment to provide highly durable products, GW Instek is your most Reliable choice when it comes to selecting the best measurement instruments with the lowest TCO - Total Cost per Ownership. Highly durable products mean long product lifetime capable of reducing operation & maintenance costs. This is definitely what you need to consider before investing.



Your Most Trustworthy Partner

Being your most trustworthy and Reliable Partner, GW Instek promises to proactively provide insightful business solutions and products with the lowest TCO - Total Cost per Ownership, assisting your business to thrive in the highly competitive world. From feasibility evaluation, product selection, solution adaptation to timely after-sales service, we are dedicated to serving each individual customer and making your professional life easier than ever.

ISC provides high precision electrical Test & Measuring Instruments from Good Will Instrument, GW INSTEK, Taiwan. GW INSTEK is a global reputed brand well known for quality, reliability, performance and innovation. It provides high quality yet economical measurement solutions for the educational and industrial manufacturing sectors alike.

Our products are being used in reputedprivate, government and deemed universities. These include institutions like IITs, NITs, IIITs, IISc, IISERs, BITS etc. All GW INSTEK products adhere to ISO quality and environmental management standards, as well as European CE safety regulations that are globally trusted.

ISC also provides exceptional after sales support, technical training, calibration services and comprehensive maintenance/service support.

PROPOSED LABORATORY SOLUTIONS

Engineering Laboratory	Lab Bench Requirement	Proposed GW INSTEK Solution
Electronics Labs	 Power Supply Function Generator/AFG Digital Oscilloscope Digital Multimeter 	 Multi O/P DC Power Supply: GPE-4323 3MHz DDS Function Generator:SFG-1013/5MHZ Arbitrary Function Generator: AFG-2005 50MHz 2-Ch Digital Storage Oscilloscope: GDS-1052U Bench Top DMM: GDM-8341
Electrical Labs	Power SupplyOscilloscopeDigital MultimeterLCR Meter	 Multi O/P DC Power Supply: GPE-4323 30MHz Analog Oscilloscope:GOS-630FC Bench Top Digital Multi Meter: GDM-8341 Hand-held/Bench Top LCR Meter: LCR-914/LCR-6002
Power Electronics Lab	Digital Oscilloscope (for Power Analysis)Digital Multimeter	 150MHz 4-CH DSO with Power Analysis S/W+ Diff Probe + Current Probe: GDS-3154+DS3-PWR +GDP-025+GCP-05 5.5 Digit Bench Top Digital Multi Meter: GDM-8351
Mechatronics Labs	Leakage TesterInsulation Resistance TesterClamp MeterLCR Meter	 Leakage Current Tester: GLC-9000 AC/IR Tester: GPT-9612 AC/DC Clamp Meter: GCM-403 Bench Top LCR Meter,2KHz: LCR-6002
RF Microwave & Wireless Communication	 Digital Oscilloscope Spectrum Analyzer Signal Generator Audio Generator 	 50MHz 4-CH DSO: GDS-1054B / 70MHz 4-CH DSO: GDS-1074B 3GHz Spectrum Analyzer with Tracking Generator: GSP-830+TG Basic 3GHz Spectrum Analyzer with RF Training Kit: GSP-730+GRF-1300A PC Based RF Generator: USG LF-44 1MHz Audio Generator: GAG-809/GAG-810
Embedded Systems Labs and Digital Signal Processing Labs	Power SupplyMixed Signal OscilloscopeFunction Generator	 Multi O/P DC Power Supply: Prog/Normal: GPD-4303S/GPE-4323 70MHz, 2-Ch/4-Ch DSO with 8-CH Logic Analyzer & Training Kit: GDS-2072A/GDS-2074A+DS2-08LA+GDB-03 5MHz Arbitrary Function Generator: AFG-2005 / 25MHz Dual Ch AFG: AFG-2225
EMI/EMC LAB	Tracking GeneratorEMC Pretest & EMI Probe Kit	 3.25GHz Spectrum Analyzer with Tracking Generator with Built-in EMC Pretest Mode: GSP-9330 EMI KIT: GKT-008

BASIC ENGINEERING TEST LAB BENCH

- 30MHz 30 MHz Analog Oscilloscope with Frequency Counter
- 50MHz Digital Storage Oscilloscope with Limited Life Time Warranty
- 3MHz DDS FG
- Multiple O/P DC Power Supply
- 50000 Counts Dual Display DMM
- Hand-held LCR Meter











ADVANCED ENGINEERING TEST LAB BENCH

- 70MHz DSO with MSO /LA /AFG/DDS FG/GDB-03 Options to work as MSO
- 70MHz Digital Storage Oscilloscope with 4-CH I/P, 7"Display
- Arbitrary Function Generator with AM/FM/Sweep/Counter
- Multiple O/P Programmable DC Power Supply
- 5 ½ Digits Dual Display DMM
- Bench-top Precision LCR Meter
- 3GHz High end- Spectrum Analyzer with Tracking Generator
- 3GHz Basic Spectrum Analyzer with RF Training Kit & USB based R Generator







GW INSTEK - ELECTRONIC TEST AND MEASURING INSTRUMENTS OFFERING FOR ENGINEERING LABS

Oscilloscopes: Analogue / Digital Storage

30MHz Analogue Oscilloscope: GOS-630FC

- 1mV/div High Vertical Sensitivity
- Internal 5 Digits Real-Time Freq Counter
- LCD Readout Display for Vertical/ Horizontal Scale /Frequency Measurement



50MHz, 2-Ch DSO: GDS-1052U

- 250MSa/s Real-Time and 25GSa/s ETS
- 19 Auto Measurements with USB Port for PC Connection
- Limited Lifetime Warranty



70MHz, 2-ch/4ch, DSO: GDS-1072B/GDS-1074B

- 1GSa/s maximum sampling rate with 10M maximum memory depth for each ch
- 7", Colour LCD display
- 1Mpts FFT frequency domain signal display
- Zero Key function for horizontal time, vertical voltage and triggering
- Three(3) Years Warranty



Function Generators

3MHz DDS Function Generator: SFG-1013

High Frequency Accuracy: ± 20ppm
High Frequency Stability: ± 20ppm
Max. Frequency Resolution: 100mHz

Voltage Display



5MHz Arbitrary Function Generator: AFG-2005

- 0.1Hz Resolution with Sine, Square, Triangular, Noise and Arb W/F
- 1% ~ 99% adjustable duty cycle for Sq W/F
- Amplitude, DC Offset and Other Key Setting Information Shown on the 3.5" LCD Screen Simultaneously
- PC Arbitrary Waveform Editing Software



25MHz Arbitrary Function Generator: AFG-2125

- 0.1Hz Resolution with Sine, Square, Triangular, Noise and Arb W/F
- 20MSa/s Sampling Rate, 10 bit Vert Res & 4k Point Memory for Arb W/F
- 1% ~ 99% duty cycle for Sq W/F
- AM/FM/FSK Modulation, Sweep, and Frequency Counter Functions
- PC Arbitrary Waveform Editing Software



Dual Ch Arbitrary Waveform Generator

25MHz, True Dual Channel AFG: AFG-2225

- Wide Frequency Ranges from 1μHz to 25MHz (sine/square wave). with 1 μHz Resolution
- Couple, Tracking, Phase Operations of Dual Channel are Supported
- 1% ~ 99% Adjustable Duty Cycle for Sq W/F
- Built-in Standard AM/FM/PM/FSK/SUM/ Sweep/Burst and Frequency Counter



30MHz, Dual Channel AFG: AFG-3202

- 250MS/S, 16Bit Vert Resln, with 8 Mega Memory
- Harmonic signal generator/Pulse Generator
- Dual Ch with support SUM modulation, coupling, tracking, and phase functions
- Built-in AM/FM/PM/FSK/PWM/SUM modulation, sweep and burst functions
- Provide USB/LAN/GPIB (optional) instrument control interface



DC Power Supplies

4 O/P DC Power Supply: GPE-4323

- 4 Independent Isolated Output, with 4.3 Inch LCD Display.
- Setting & Read back Resolution 10mA / 1Ma, Output ON/OFF, Key Lock Function,
- Analog Control (Remote I/O) for O/p ON / OFF
- Set View function for checking an original V / I setting during output on,
- Tracking series and parallel operation



4 O/p , Programmable High Res DC Power Supply: GPD-4303S

- Resolution1mV/1mA,Digital panel control
- Coarse/fine control, 4 Sets Save/Recall,
- · Key-Lock, Output on/off function
- Tracking Series and Parallel mode,
- USB Std I/F, PC S/W & USB Driver, Labview Driver



Spectrum Analyzer

3GHz Spectrum Aanalyzer: GSP-830+ TG Opt.

- Low noise Floor (-117dBm @1Ghz,3Khz RBW)
- Sequence programming Function, ACPR, OCBW, Channel Power
- N-dB, Phase jitter measurement, Pass/Fail Test with Limit Line Editing.5 marker with delta marker, Peak Function
- Split Windows allows separate settings, Optional tracking generator and preamplifier



3GHz Spectrum Analyser with RF raining Kit & RF genr: GSP-730+GRF-1300A+ USG LF-44

- Auto set Function and noise level:<-100dBm
- RBW Range :30Khz,100kHz,300khz,1Mhz, ACPR/CHPW/OCBW Measurement 3 traces in different colors.
- Split window function, Limit line function



Mixed Signal Oscilloscopes

GDS-2072A+FG-225P/DS2-FGN+GDB-03+DS2-08LA

- 70 MHz 2-Ch DSO /MSO with 25Mhz AFG/5MHz DDS module, 8-Ch Logic Analyzer, Signal Source/Training Kit
- 2GSa/s RTS, 2Mega Points Record Length
- 80,000 wfm/s of Waveform Update Rate,
- 8 inch TFT LCD Display, Built-in Segmented Memory and Waveform Search Functions,
- 36 Automatic Measurement Functions, Optional 8 Ch Logic analyzer(MSO), Optional FG
- Flexible Remote Control Connectivity Standard: USB;
 Option: LAN/GPIB
- Upgradable CAN/LIN bus analysis , Advanced Logic, Data log , DVM and H-expansion functionalities



LCR Meters

1KHz Hand-held LCR Meter: LCR-914

- Auto LCR Mode for DUT Measuring
- Measurement Parameter: L,C,R,D,Q, ESR, θ, DCR, Parallel/Series Testing Mode
- Sorting Mode for Quality Control,
- Data Hold and Zero Mode Supported,
- Auto Range, Auto Backlit, Auto power-off



2KHz, Bench Top LCR Meter: LCR-6002

- Consecutive test frequency Measuring speed up to 25ms (max.)
- Full frequency range or spot OPEN/SHORT
- 16 major/secondary parameter measurement combinations
- DCR measurement and internal D.C. bias voltage (±2.5V), PASS/FAIL judgment
- Auto Level Control (ALC) function
- Standard interface: RS-232C, Handler and USB storage



Digital Multimeters

50000 Counts Dual Display DMM: GDM-8341

- 50000 Counts, VFD display, with Dual Measurement/Dual display,
- Auto/manual Ranging, True RMS, AC, AC+DC) measurements,
- Standard USB device interface for PC Comn.



5 ½ Digit Dual Display DMM: GDM-8351

- True RMS (AC, AC+DC) measurements, Auto/manual selection
- Continuity beeper, diode test, capacitance, frequency, temperature
- REL/REL#, Compare, Hold, dB, dBm, Math (MX+B, %, 1/X)Digital I/O provides dual mode (standard Compare and User definition modes)
- Standard RS-232C and USB device interface



Other Specific Instruments

Audio Generator: GAG-809/GAG-810



Automatic Distortion meter: GAD-201G



AC Millivolt Meter: GVT-417B/GVT-427B

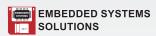




Channel Partner & Authorised Distributor (Sales & Service) for Good Will Instrument Co. Ltd. Taiwan Brand Test & Measuring Instruments



Authorized Service Centre for **Electro Systems Associates Pvt.Ltd. (ESA)** Microcontroller kits & Programmers



Authorised Services Centre for **Embedded Systems Solutions Pvt. Ltd. (ESS)** Embedded Development tools & Debuggers



www.isc4esaindia.com

INTEGRATED SERVICES & CONSULTANCY

#37, 2nd Floor, 'Embedded Home', 36th Cross, II Block, Rajajinagar, Bangalore-560010

Phone: +91-80-23420746

Sales: sales@isc4esaindia.com | Support: support@isc4esaindia.com

I CONTACTS:

BANGALORE

MR. JAYANT HEGDE

DGM-Sales #37, 2nd Floor, 'Embedded Home',36th Cross, II Block, Rajajinagar, Bangalore-560010

E: sales@isc4esaindia.com

P: +91 80-23420746 **M:** +91 9845070872

PUNE

MR. MILIND PATHAK

Regional Manager Shriram Complex, 1126/1,Model Colony, Shivajinagar, Pune-411015

E: pune@isc4esaindia.com M: +91 7507360099

+91 9923649490 (Vinod)

HYDERABAD

MR. MURTHY

Regional Manager
No.14, "Global Enclave"
Bhagyanagar Colony,
Kukat Pally,
Heyderbad-500072

E: hyderabad@isc4esaindia.com

M: +91 9848652100 (Vijay Gopala) +91 9848655337

CHENNAI

MR. KANNAN

Regional Manager No.109/59A, Ground Floor, IV Avenue, Ashok Nagar, Chennai-600083 Tamilnadu

E: chennai@isc4esaindia.com

M: +91 09841053251 +91 7550076900 +91 7550076300