

PRODUCT CATALOG 2023



SINCOM[®]

Sindhu ELECTRONICS & COMMUNICATIONS PVT. LTD.

Electronics Educational Trainer Kits

Let's Learn the Gems of Electronics

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ABOUT US

SINCOM® is an **ISO 9001:2015** Certified Electronics Manufacturing Company, pioneers in the Designing, Manufacturing, Marketing and **Exporter of Electronics Educational Trainer Kits & Equipments since 1995.**

The Trainer kits are designed to educate students about the problems and troubleshooting techniques that are supposed to be adopted when exposed to advanced working systems in the Industries and real fields.

Developing user friendly products, need a focused vision and clear understanding of the subject. To ensure this our R & D team are constantly engaged in developing high quality products that are cost effective and added customer satisfaction.

SINCOM is dedicated to Excellence in Customer Service and Satisfaction with **OVER 1200 TRAINERS KITS** under the belt to produce **Best Quality Trainer Kits**. These Trainers are intended **to Learn the Gems of Electronics** in a simpler Experimental ways with the reduced gap of Theoretical and Practical concepts.

We ensure a perfect blend of latest technology, utmost precision & superb craftsmanship with the best after sales service.

We assure you

Best Quality, Value for Money, Prompt Delivery and Technical Support.



Features:

- A circuit/Block **Diagram printed in multicolor** on the front panel of the board.
- Complete **enclosed in High Quality poly coated Imported Pine Wooden Box.**
- **Built-in Fixed / Variable DC Regulated Power Supply.**
- **Maximum Test Points** to study all the corners of the Experiment.
- Equipped with maximum objectives.
- **Test Points** by 2 mm high quality banana sockets.
- **Interconnections** by 2 mm high quality banana pins.
- *Digital Meters on Demand.*
- *Test Signal Generators on Demand.*
- **Very Easy for operation.**
- **Detailed Instruction manual** on the line of curriculum.

We make things Simple

to understand to perform....

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Note: Products Design & Specifications are subject to change without any notice & availability of components.

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8.	RF Amplifier for FM Receiver	SD-208
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22.	AM/FM Radio Receiver with 5 Faults Creating Facility	SD-231
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2.	Optical Communication Trainer with Digital Link	SE-202
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4.	FM Modulation and Demodulation using Fiber Optics	SE-204
5.	AM Modulation and Demodulation using Fiber Optics	SE-205
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7.	PWM Modulation and Demodulation using Fiber Optics	SE-207
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15.	PAM/PWM/PPM Modulation & Demodulation using Fiber Optics	SE-215
16.	ASK/FSK/PSK Modulation & Demodulation using Fiber Optics	SE-216
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20.	Fiber Optics Cable Losses	SE-220
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22.	Fiber Optics Communication with Analog, Digital, AM, FM, ASK, FSK, PSK signal link	SE-222
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24.	Optical communication for Voice and Data signals	SE-224
25.	Advance Fiber Optics Trainer	SE-225

3. DIGITAL ELECTRONICS (Series 300)

S.N.	Particulars	Model No.
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1.	BCD to Decimal Code Converter	SA-301
2.	Decimal to BCD Code Converter	SA-302
3.	BCD to Decimal Encoder & Decoder	SA-303
4.	BCD to Binary Code Converter (Encoder)	SA-304
5.	Binary to BCD Code Converter (Decoder)	SA-305
6.	BCD to Excess-3 Code Converter	SA-306
7.	Excess-3 to BCD Code Converter	SA-307
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9.	Excess-3 to Decimal Decoder	SA-309
10.	BCD to Excess-3 Encoder & Decoder	SA-310
11.	Decimal to Excess-3 Encoder & Decoder	SA-311
12.	Gray to Binary Code Converter	SA-312
13.	Binary to Gray Code Encoder & Decoder	SA-313
14.	Octal to Binary Encoder	SA-314
15.	Binary to Octal Decoder	SA-315
16.	BCD to Decimal-Excess-3 Code converter	SA-316
17.	Decimal to BCD-Excess-3 Code converter	SA-317
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1.	Basic Logic Gates using Diode & Transistor	SB-301
2.	AND, NAND, NOT Gate Characteristics	SB-302
3.	OR ,NOR, NOT Gate Characteristics	SB-303
4.	EX-OR & EX-NOR Gate Characteristics	SB-304
5.	EX-OR Gate using NAND Gate	SB-305
6.	EX-OR Gate as Controlled Inverter	SB-306
7.	NAND as a Universal Gate	SB-307
8.	NOR as a Universal Gate	SB-308
9.	NAND & NOR As Universal Gates	SB-309
10.	TTL Gates Transfer Characteristics	SB-310
11.	CMOS Gates Transfer Characteristics	SB-311
12.	RTL, DTL ,TTL Logic Gates Trainer	SB-312
13.	Noise Margin in TTL Gate	SB-313
14.	Boolean Expression Using Logic Gates	SB-314
15.	K-Map (SOP & POS Type)	SB-315
16.	Demorgan's Theorem	SB-316
17.	Logic Gates Trainer (all types)	SB-317
18.	TTL & CMOS Gates Transfer Characteristics	SB-318
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S.N.	Particulars	Model No.
2.	R-S Flip-Flop using NAND & NOR Gate	SC-302
3.	R-S Flip- Flop using NAND Gate	SC-303
4.	JK Flip-Flop	SC-304
5.	JK Flip-Flop using RS Flip-Flop	SC-305
6.	JK Flip-Flop using NAND Gate	SC-306
7.	JK Master Slave Flip-Flop using gates	SC-307
8.	Master Slave JK Flip-Flop using IC 7476	SC-308
9.	D-Type Flip-Flop	SC-309
10.	T Flip-Flop	SC-310
11.	D & T Flip-Flop using RS Flip-Flop	SC-311
12.	Flip-Flop Trainer (all types)	SC-312
13.	RS and JK MS Flip-Flop	SC-313
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1.	Multiplexer 4:1 using IC 74153	SD-301
2.	Multiplexer 8:1 using IC 74151	SD-302
3.	Multiplexer 16:1 using IC 74150	SD-303
4.	Demultiplexer 1:4 using IC 74155 (2:4 Decoder)	SD-304
5.	Demultiplexer 1:8 using IC 74138 (3:8 Decoder)	SD-305
6.	Demultiplexer 1:16 using IC 74154 (4:16 Decoder)	SD-306
7.	Multiplexer 4:1 using Gates	SD-307
8.	Multiplexer 8:1 using Gates	SD-308
9.	Demultiplexer 1:4 using Gates	SD-309
10.	Demultiplexer 1:8 using Gates	SD-310
11.	4:1 Multiplexer & 1:4 Demultiplexer	SD-311
12.	8:1 Multiplexer & 1:8 Demultiplexer	SD-312
13.	16:1 Multiplexer & 1:16 Demultiplexer	SD-313
14.	Multiplexer Trainer (4:1, 8:1, 16:1)	SD-314
15.	Demultiplexer Trainer (1:4, 1:8, 1:16)	SD-315
16.	Multiplexer 8:1 and Demultiplexer 1:4	SD-316
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2.	Up-Down Counter using IC 74192	SE-302
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6.	Johnson Type Ring Counter	SE-306
7.	Three Bit Binary Ripple Counter	SE-307
8.	Four Bit Binary Ripple counter	SE-308
9.	Four Bit Down counter	SE-309
10.	Four Bit UP Counter	SE-310
11.	MOD-N Counter (N = 2 To N = 9)	SE-311
12.	MOD-3 Counter	SE-312
13.	MOD-5 Counter	SE-313
14.	MOD-6 Counter using IC 7490	SE-314
15.	MOD-9 Counter	SE-315
16.	MOD-20 Counter using IC 7490	SE-316
17.	Buffer Register 4 bit	SE-317

S.N.	Particulars	Model No.
18.	Serial In-Serial Out Shift Registers (SISO)	SE-318
19.	Serial In-Parallel Out Shift Registers (SIPO)	SE-319
20.	Parallel In-Serial Out Shift Registers (PISO)	SE-320
21.	Parallel In-Parallel Out Shift Registers (PIPO)	SE-321
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23.	Four Bit Universal Shift Registers	SE-323
24.	SISO & SIPO Shift Register	SE-324
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27.	IC4035 as a Universal Shift Registers	SE-327
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2.	Full Adder	SF-302
3.	Half & Full Adder	SF-303
4.	Half Subtractor	SF-304
5.	Full Subtractor	SF-305
6.	Half & Full Subtractor	SF-306
7.	Full Adder & Full Subtractor	SF-307
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10.	Four Bit Subtractor	SF-310
11.	Five Bit Subtractor	SF-311
12.	Four Bit Adder & Subtractor using IC 7483	SF-312
13.	8 Bit Adder & Subtractor using IC 7483	SF-313
14.	Four Bit Comparator	SF-314
15.	Study of ALU using IC 74181	SF-315
16.	Half Adder & Half Subtractor	SF-316
17.	Half & Full Adder Subtractor	SF-317
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1.	Analog to Digital (A to D) Converter	SG-301
2.	A To D Converter using Successive Approximation Method	SG-302
3.	ADC using IC 0809	SG-303
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5.	D to A Converter using Binary Weighed Method (Four Bit)	SG-305
6.	DAC using IC 0800	SG-306
7.	Schmitt Trigger using Gates	SG-307
8.	Controlled Inverter using Gates	SG-308
9.	Astable Multivibrator using Gates	SG-309
10.	Monostable Multivibrator using Gates	SG-310
11.	Monostable Multivibrator using IC	SG-311
12.	Bistable Multivibrator using Gates	SG-312
13.	Astable ,Monostable,Bistable Multivibrator using Gates	SG-313
14.	Clock Oscillator using Gates	SG-314
15.	ROM using diode	SG-315
16.	Study of RAM	SG-316
17.	NOR Gate as Comparator	SG-317
18.	NAND Gate as Comparator	SG-318

S.N.	Particulars	Model No.
19.	NOR & NAND Gate as Comparator	SG-319
20.	Parity Generator	SG-320
21.	Even & Odd Parity Checker	SG-321
22.	Parity Generator & Checker	SG-322
23.	Interfacing of CMOS To TTL & TTL To CMOS IC's	SG-323
24.	Directional Buffer using IC 74245	SG-324
25.	Uni-Directional Buffer	SG-325
26.	ADC 0809 and DAC 0800 Trainer	SG-326
27.	A to D Converter using OP-AMP and ADC IC 0809	SG-327
28.	D to A Converter using R-2R, Binary Weighed Method and DAC IC 0800	SG-328
29.	D to A Converter using R-2R Network & Binary Weighed Method	SG-329
30.	A to D using OP-AMP and D to A Converter using R-2R Network	SG-330
31.	Sampling Gates	SG-331

4. POWER / INDUSTRIAL ELECTRONICS (Series 400)

S.N.	Particulars	Model No.
Section A: Devices Characteristics		
1.	SCR Characteristics	SA-401
2.	SCR Characteristics with Digital Meters	SA-401DM
3.	DIAC Characteristics	SA-402
4.	DIAC Characteristics with Digital Meters	SA-402DM
5.	TRIAC Characteristics	SA-403
6.	TRIAC Characteristics with Digital Meters	SA-403DM
7.	IGBT Characteristic	SA-406
8.	IGBT Characteristic with Digital Meters	SA-406DM
9.	Characteristics of SCR, DIAC & TRIAC	SA-407
10.	Characteristics of SCR, DIAC & TRIAC with Digital Meters	SA-407DM
11.	Characteristics of Power Transistor	SA-408
12.	Characteristics of Power Transistor with Digital Meters	SA-408DM
13.	Characteristics of SCR and DIAC	SA-409
14.	Characteristics of SCR and DIAC with Digital Meters	SA-409DM
15.	Characteristics of DIAC and TRIAC	SA-410
16.	Characteristics of DIAC and TRIAC with Digital Meters	SA-410DM
17.	Characteristics of SCR, DIAC, TRIAC & MOSFET	SA-411
18.	Characteristics of SCR, DIAC, TRIAC & MOSFET with Digital Meters	SA-411DM
19.	Characteristics of SCR, DIAC, TRIAC & IGBT	SA-412
20.	Characteristics of SCR, DIAC, TRIAC & IGBT with Digital Meters	SA-412DM
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1.	SCR Gate Triggering using DC Voltage (R Triggering)	SB-401
2.	SCR Gate Triggering using UJT Relaxation Oscillator	SB-402
3.	SCR Gate Triggering using Square Wave Pulse	SB-403
4.	SCR Gate Triggering using RC Network	SB-404
5.	SCR Gate Triggering using AC Voltage	SB-405

S.N.	Particulars	Model No.
6.	SCR Class A Commutation	SB-406
7.	SCR Class B Commutation	SB-407
8.	SCR Class C Commutation	SB-408
9.	SCR Class D Commutation	SB-409
10.	SCR Class E Commutation	SB-410
11.	SCR Class F Commutation	SB-411
12.	SCR Gate Triggering (Turn -ON Methods) Trainer	SB-412
13.	SCR Force Commutation (Turn -OFF Methods)Trainer All Types	SB-413
14.	SCR R (DC) and RC Gate Triggering	SB-414
15.	SCR Class A,B,C Commutation (Turn-Off) circuits	SB-415
16.	SCR Class D,E,F Commutation (Turn-Off) circuits	SB-416
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1.	SCR Firing & Conduction Angle	SC-401
2.	Phase Shift Control of SCR	SC-402
3.	Phase Shift Control of TRIAC	SC-403
4.	SCR Single Phase (1 ϕ) Half Wave Half Controlled Rectifier	SC-404
5.	SCR Single Phase (1 ϕ) Half Wave Full Controlled Rectifier	SC-405
6.	SCR Single Phase (1 ϕ) Full Wave Half Controlled Rectifier	SC-406
7.	SCR Single Phase (1 ϕ) Full Wave Full Controlled Rectifier	SC-407
8.	SCR Single Phase (1 ϕ) Full Wave Half Controlled Bridge Rectifier	SC-408
9.	Three Phase Rectifier using Diodes (Uncontrolled)	SC-409
10.	SCR Half/Full Wave Rectifier	SC-410
11.	SCR Half wave, Full Wave, Bridge Half Controlled Rectifier/Converter with Resistive & Indicative Load	SC-411
12.	Phase Shift Control of SCR & TRIAC	SC-412
13.	SCR Full Wave-Half Controlled Rectifier with Resistive & Indicative Load	SC-413
Section D : Stabilizer, Inverters, Converters, Choppers		
1.	Relay Type AC Voltage Stabilizer (Buck & Boost Type) trainer	SD-401
2.	AC SERVO Controlled Voltage Stabilizer Demonstrator	SD-402
3.	Emergency Light System Demonstrator with 6V Battery	SD-403
4.	Automatic Battery Charger Demonstrator with 12V Battery	SD-404
5.	Inverter Demonstrator 500 VA with 12V Battery	SD-405
6.	UPS Demonstrator Offline 500 VA with 12V Battery	SD-406
7.	SCR Series Inverter	SD-407
8.	SCR Parallel Inverter	SD-408
9.	SCR Step Up Chopper	SD-409
10.	SCR Step Down Chopper	SD-410
11.	Jone's Chopper	SD-411
12.	Single Phase SCR Cycloconverter	SD-412
13.	Demorgan's Chopper	SD-413
14.	SCR Step Up & Step Down Chopper	SD-414
15.	SCR Bridge Inverter	SD-415
16.	SCR Series and Parallel Inverter	SD-416
Section E : Applications Circuits		
1.	Light Dimmer using TRIAC	SE-401
2.	Temperature Control using SCR	SE-402
3.	Illumination Control using SCR	SE-403

S.N.	Particulars	Model No.
4.	TRIAC as a Three Position Static Switch	SE-404
5.	DC Timer using SCR & UJT	SE-405
6.	AC Timer using SCR & UJT	SE-406
7.	Sequential Timer using SCR & UJT (Three Stage)	SE-407
8.	DC Timer using Transistor	SE-408
9.	Ultra Precise Long Time Delay Relay	SE-409
10.	Sequential Timer using SCR & UJT (Four Stage)	SE-410
11.	Sequential Timer using IC 555 (Three Stage)	SE-411
12.	Thyristor Time Delay Relay Circuit	SE-412
13.	Batch Counter Circuit	SE-413
14.	Smoke Detector Circuit	SE-414
15.	Flame Failure Circuit	SE-415
16.	SCR Flasher Circuit	SE-416
17.	DC to DC Converter	SE-417
18.	Photo Relay (Light Operated Relay) using IC 555 & Transistor	SE-418
19.	Speed Control of 12 V DC Motor	SE-419
20.	Speed Control of DC Motor with DC Motor	SE-420
21.	Speed Control of AC Motor with AC Motor	SE-421
22.	DC & AC Timer using SCR & UJT	SE-422
23.	Burglar Alarm Using LDR with Faults facility	SE-423
24.	Touch Circuit using SCR	SE-424
25.	Circuit Breaker using SCR & UJT	SE-425

5. LINEAR INTEGRATED CIRCUITS (Series 500)

S.N.	Particulars	Model No.
Section A : Op-Amp Amplifiers		
1.	Single and Double Ended BJT Differential Amplifier	SA-501
2.	IC 741 as Differential Amplifier	SA-502
3.	Op-Amp IC 741 as Inverting Amplifier	SA-503
4.	Op-Amp IC 741 as Non Inverting Amplifier	SA-504
5.	IC 741 as Inverting & Non-Inverting Amplifier	SA-505
6.	Op-Amp IC 741 as Adder & Averager	SA-506
7.	Op-Amp IC 741 as Subtractor	SA-507
8.	IC 741 as Adder, Averager & Subtractor	SA-508
9.	IC 741 as Adder, Averager & Subtractor with 2 Digital Meters	SA-508DM
10.	Op-Amp IC 741 as Buffer/Unity Gain/follower Amplifier	SA-509
11.	Op-Amp IC 741 as AC Amplifier	SA-510
12.	Op-Amp IC 741 as DC Amplifier	SA-511
13.	IC 741 as AC & DC Amplifier	SA-512
14.	Instrumentation Amplifier using IC 741	SA-513
15.	Instrumentation Amplifier with Linear Gain Control	SA-514
16.	IC 741 as Log Amplifier	SA-515
17.	IC 741 as Antilog Amplifier	SA-516

S.N.	Particulars	Model No.
18.	IC 741 as Log & Antilog Amplifiers	SA-517
19.	Differential Amplifier using two Op-Amp	SA-518
20.	Differential Amplifier using three Op-Amp	SA-519
21.	Differential Amplifier using four Op-Amp	SA-520
22.	IC 810 as Audio Power Amplifier	SA-521
23.	To Determine Slew Rate of Op -Amp	SA-522
24.	To Determine CMRR of Op -Amp	SA-523
25.	To Determine Slew Rate & CMRR of Op -Amp	SA-524
26.	Op-Amp IC 741 Characteristics (Parameters)	SA-525
27.	IC 741 as Audio Amplifier	SA-526
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1.	IC 741 as I st Order Active Low Pass Filter (Butter worth)	SB-501
2.	IC 741 as I st Order Active High Pass Filter	SB-502
3.	IC 741 as I st Order Active Low Pass & High Pass Filter	SB-503
4.	IC 741 as II nd Order Active Low Pass Filter	SB-504
5.	IC 741 as II nd Order Active High Pass Filter	SB-505
6.	IC 741 as II nd Order Active Low Pass & High Pass Filter	SB-506
7.	IC 741 as I st & II nd Order Active Low Pass Filter	SB-507
8.	IC 741 as I st & II nd Order Active High Pass Filter	SB-508
9.	IC 741 as III rd Order Active Low Pass Filter	SB-509
10.	IC 741 as III rd Order Active High Pass Filter	SB-510
11.	IC 741 as IV th Order Active Low Pass Filter	SB-511
12.	IC 741 as IV th Order Active High Pass Filter	SB-512
13.	IC 741 as Wide Band Pass Filter	SB-513
14.	IC 741 as Narrow Band Pass / Notch Filter	SB-514
15.	IC 741 as Wide Band Reject Filter	SB-515
16.	IC 741 as Band Pass & Band Reject Filter	SB-516
17.	IC 741 as All Pass Filter	SB-517
18.	IC 741 as Chebyshev Filter	SB-518
19.	IC 741 as Biquad Filter	SB-519
20.	IC 741 as Low, High & Band Pass filter (1 st Order)	SB-520
21.	IC 741 as 2 nd order Low, High & Band Pass filter (2 nd Order)	SB-521
Section C : Multivibrators, Oscillators & Wave Forms Generators		
1.	IC 741 as Phase Shift Oscillator	SC-501
2.	IC 741 as Wein Bridge Oscillator	SC-502
3.	IC 741 as Quadrature Oscillator	SC-503
4.	IC 741 as Hartley Oscillator	SC-504
5.	IC 741 as Collpitts Oscillator	SC-505
6.	IC 741 as Crystal Oscillator	SC-506
7.	IC 741 as Phase Shift & Wein Bridge Oscillator	SC-507
8.	IC 741 as Square Wave Generator	SC-508
9.	IC 741 as Sawtooth Generator	SC-509
10.	IC 741 as Triangular Wave Generator	SC-510
11.	IC 741 as Square & Triangular Wave Generator	SC-511
12.	IC 741 as Astable Multivibrator	SC-512
13.	IC 741 as Bistable Multivibrator	SC-513
14.	IC 741 as Monostable Multivibrator	SC-514

S.N.	Particulars	Model No.
15.	IC 741 as Astable & Monostable Multivibrator	SC-515
16.	IC 741 as Astable, Monostable & Bistable Multivibrator	SC-516
17.	IC 741 as Schmitt Trigger	SC-517
18.	IC XR2206 as Function Generator	SC-518
19.	OP-AMP 741 as Oscillators (All types)	SC-519
20.	OP-Amp IC 741 as Sine, Square & Triangular wave (function) Generator	SC-520
21.	IC 741 as Hartley & Collpitts Oscillator	SC-521
Section D : Phased Lock Loop (PLL)		
1.	IC 565 as Phased Lock Loop (PLL)	SD-501
2.	Voltage Controlled Oscillator (VCO) using IC 566/565	SD-502
3.	IC 565 as Frequency Multiplier	SD-503
4.	PLL IC 565 Trainer	SD-504
Section E : Op-Amp Applications Circuit		
1.	IC 741 as Non Inverting Comparator	SE-501
2.	IC 741 as Inverting Comparator	SE-502
3.	IC 741 as Inverting & Non Inverting Comparator	SE-503
4.	IC 710 as Voltage Comparator	SE-504
5.	Op-Amp IC 741 as Precision Half Wave Rectifier	SE-505
6.	Op-Amp IC 741 as Precision Full Wave Rectifier	SE-506
7.	Op-Amp IC 741 as Precision Half Wave & Full Wave Rectifier	SE-507
8.	Op-Amp IC 741 as V to I Converter	SE-508
9.	Op-Amp IC 741 as I to V Converter	SE-509
10.	Op-Amp IC 741 as V To I & I To V Converter	SE-510
11.	IC 741 as Zero Crossing Detector (ZCD)	SE-511
12.	IC 741 as Peak Detector (APD)	SE-512
13.	IC 741 as ZCD & APD	SE-513
14.	IC 741 as Window Detector	SE-514
15.	IC 741 as Positive & Negative Clipper circuit	SE-515
16.	IC 741 as Clamper circuit	SE-516
17.	IC 741 as Clipper & Clamper circuit	SE-517
18.	IC 741 as Differentiating Circuit	SE-518
19.	IC 741 as Integrating Circuit	SE-519
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21.	IC 741 as Sample & Hold Circuit	SE-521
22.	IC 741 as Voltage to Frequency Converter (V-F)	SE-522
23.	IC 741 as Frequency to Voltage Converter (F-V)	SE-523
24.	IC 741 as V-F and F-V Converter	SE-524
25.	IC 741 as Staircase generator	SE-525
Section F : Timer IC 555 Circuits		
1.	IC 555 as Astable Multivibrator	SF-501
2.	IC 555 as Bistable Multivibrator	SF-502
3.	IC 555 as Monostable Multivibrator	SF-503
4.	IC 555 as Astable & Monostable Multivibrator	SF-504
5.	IC 555 as Astable, Monostable & Bistable Multivibrator	SF-505
6.	IC 555 as Schmitt Trigger	SF-506
7.	IC 555 as Voltage Controlled Oscillator (VCO)	SF-507
8.	IC 555 as Frequency Divider	SF-508

S.N.	Particulars	Model No.
9.	IC 555 as Ramp Generator	SF-509
10.	IC 555 as Water Level Controller	SF-510
11.	DC Timer using IC 555	SF-511
12.	AC Timer using IC 555	SF-512
13.	AC & DC Timer using IC 555	SF-513
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15.	Touch Switch using IC 555	SF-515
16.	IC 555 as light operated Photo Relay	SF-516
17.	IC 555 as Continuity Tester	SF-517
18.	IC 555 as Tone Generator	SF-518
19.	IC 741 as DC & AC Timer	SF-519
20.	IC 555 as Application Trainer	SF-520
21.	IC 555 as Monostable, Bistable and Schmitt Trigger	SF-521
22.	IC 555 as Schmitt Trigger and Voltage Controlled Oscillator (VCO)	SF-522

6. NETWORK & BRIDGES CIRCUITS (Series 600)

S.N.	Particulars	Model No.
1.	Ohm's Law	SE-601
2.	Ohm's Law with 2 Digital Meters	SE-601DM
3.	Kirchoff's Current Law (KCL)	SE-602
4.	Kirchoff's Current Law (KCL) with Digital Meters	SE-602DM
5.	Kirchoff's Voltage Law (KVL)	SE-603
6.	Kirchoff's Voltage Law (KVL) with Digital Meters	SE-603DM
7.	Kirchoff's Laws (KCL & KVL)	SE-604
8.	Kirchoff's Laws (KCL & KVL) with Digital Meters	SE-604DM
9.	Maxwell Loop Current method	SE-605
10.	RC Series Resonance	SE-606
11.	RC Parallel Resonance	SE-607
12.	RC Series & Parallel Resonance	SE-608
13.	RL Series Resonance	SE-609
14.	RL Parallel Resonance	SE-610
15.	RL Series & Parallel Resonance	SE-611
16.	RLC Series Resonance	SE-612
17.	RLC Parallel Resonance	SE-613
18.	RLC Series & Parallel Resonance	SE-614
19.	RC Lead Circuit	SE-615
20.	RC Lag Circuit	SE-616
21.	RC lead and Lag Circuit	SE-617
22.	RC & LC Circuit	SE-618
23.	Thevenin's Theorem for DC Circuit	SE-619
24.	Thevenin's Theorem for DC Circuit with Digital Meters	SE-619DM
25.	Thevenin's Theorem for AC Circuit	SE-619AC
26.	Norton's Theorem for DC Circuit	SE-620

S.N.	Particulars	Model No.
27.	Norton's Theorem for DC Circuit with Digital Meters	SE-620DM
28.	Norton's Theorem for !C Circuit	SE-620AC
29.	Millman's Theorem for DC Circuit	SE-621
30.	Millman's Theorem for DC Circuit with Digital Meters	SE-621DM
31.	Millman's Theorem for !C Circuit	SE-621AC
32.	Superposition Theorem for DC Circuit	SE-622
33.	Superposition Theorem for DC Circuit with Digital Meters	SE-622DM
34.	Superposition Theorem for AC Circuit	SE-622AC
35.	Reciprocity Theorem for DC Circuit	SE-623
36.	Reciprocity Theorem for DC Circuit with Digital Meters	SE-623DM
37.	Reciprocity Theorem for AC Circuit	SE-623AC
38.	Maximum Power Transfer Theorem for DC Circuit	SE-624
39.	Maximum Power Transfer Theorem for DC Circuit with Digital Meters	SE-624DM
40.	Maximum Power Transfer Theorem for AC Circuit	SE-624AC
41.	Tellegan's Theorem for DC Circuit	SE-625
42.	Tellegan's Theorem for DC Circuit with Digital Meters	SE-625DM
43.	Tellegan's Theorem for AC Circuit	SE-625AC
44.	Duality Theorem for DC Circuit	SE-626
45.	Duality Theorem for DC Circuit with Digital Meters	SE-626DM
46.	Duality Theorem for AC Circuit	SE-626AC
47.	Compensation Theorem for DC Circuit	SE-627
48.	Compensation Theorem for DC Circuit with Digital Meters	SE-627DM
49.	Compensation Theorem for AC Circuit	SE-627AC
50.	Thevenin's, Norton's Theorem for DC Circuit	SE-628
51.	Thevenin's, Norton's Theorem for DC Circuit with Digital Meters	SE-628DM
52.	Thevenin's, Norton's Theorem for !C Circuit	SE-628AC
53.	Maximum Power, Reciprocity and Superposition Theorem for DC Circuit	SE-629
54.	Maximum Power, Reciprocity and Superposition Theorem for DC Circuit with Digital Meters	SE-629DM
55.	Maximum Power, Reciprocity and Superposition Theorem for AC Circuit	SE-629AC
56.	Two Port Network for Z & Y Parameters for DC Circuit	SE-630
57.	Two Port Network for Z & Y Parameters for DC with Digital Meters	SE-630DM
58.	Two Port Network for Z & Y Parameters for AC	SE-630AC
59.	Two Port Network for ABCD Parameters for DC Circuit	SE-631
60.	Two Port Network for ABCD Parameters for DC with Digital Meters	SE-631DM
61.	Two Port Network for ABCD Parameters for AC	SE-631AC
62.	Two Port Network for h & g Parameters for DC Circuit	SE-632
63.	Two Port Network for h & g Parameters for DC with Digital Meters	SE-632DM
64.	Two Port Network for h & g Parameters for AC	SE-632AC
65.	Wheatstone Bridge	SE-633
66.	Kelvin's Bridge (Double bridge)	SE-634
67.	Maxwell's Bridge	SE-635
68.	Hay's Bridge	SE-636
69.	Owen's Bridge	SE-637
70.	Desauty's Bridge	SE-638
71.	Inderson's Bridge	SE-639
72.	Schering Bridge	SE-640

S.N.	Particulars	Model No.
73.	Wein Bridge	SE-641
74.	Capacitor Charging & Discharging	SE-642
75.	Capacitor Charging & Discharging with 2 Digital Meters	SE-642DM
76.	Step Response of RC First order Circuit	SE-643
77.	Step Response of RLC Second order Circuit	SE-644
78.	Capacitance of Series Combinations	SE-645
79.	Capacitance of Parallel Combinations	SE-646
80.	Pie to T Network Converter	SE-647
81.	T to Pie Network Converter	SE-648
82.	Pie to T and T to Pie Network Converter	SE-649
83.	Constant K-Type Low Pass Filter	SE-650
84.	Constant K-Type High Pass Filter	SE-651
85.	Constant K-Type Band Pass Filter	SE-652
86.	Constant K-Type Band Reject Pass Filter	SE-653
87.	Constant M-Type Low Pass Filter	SE-654
88.	Constant M-Type High Pass Filter	SE-655
89.	Constant M-Type Band Pass Filter	SE-656
90.	Constant M-Type Band Reject Pass Filter	SE-657
91.	Constant K-Type Passive Filter Trainer	SE-658
92.	Constant M-Type Passive Filter Trainer	SE-659
93.	RC Low, High & Band Pass Filter	SE-660
94.	Resistance of Series Combinations	SE-661
95.	Resistance of Parallel Combinations	SE-662
96.	Resistance of Series & Parallel Combinations	SE-663
97.	Capacitance of Series & Parallel Combinations	SE-664
98.	Step Response of RL First order Circuit	SE-665
99.	Thevenin, Norton & Superposition Theorem	SE-666
100.	Thevenin, Norton & Superposition Theorem with 2 Digital Meters	SE-666DM
101.	Step Response of RC & RL First order Circuit	SE-667
102.	Step Response of RL,RC & RLC Circuit	SE-668
103.	Lissajous Pattern Trainer	SE-669
104.	Study of Transformer	SE-670

7. ELECTRONICS COMPONENTS DISPLAY BOARD (Series 700)

S.N.	Particulars	Model No.
1.	Display Board of Different Fixed & Variable Resistor	SE-701
2.	Display Board of Different Variable Resistor	SE-702
3.	Display Board of Fixed & Variable Capacitors	SE-703
4.	Display Board of Diodes	SE-704
5.	Display Board of Transistor	SE-705
6.	Display Board of SCR, DIAC, TRIAC, UJT	SE-706
7.	Display Board of Wires & Cables	SE-707
8.	Display Board of Connector	SE-708
9.	Display Board of Display	SE-709
10.	Display Board of Switches	SE-710
11.	Display Board of Relays	SE-711
12.	Display Board of Inductor	SE-712
13.	Display Board of Transformers	SE-713
14.	Display Board of Transformers & Coil	SE-714
15.	Display Board of Loud Speakers	SE-715
16.	Display Board of Loud Speakers & Microphone	SE-716
17.	Display Board of Analog ICS	SE-717
18.	Display Board of Digital ICS (TTL & CMOS)	SE-718
19.	Display Board of Discrete ICs (Analog, Digital)	SE-719
20.	Soldering & Desoldering Practice Trainer	SE-720
21.	SMD Discrete Components Board	SE-721
22.	Discrete Components Board	SE-722
23.	Components Testing Board	SE-723

8. ELECTRONICS MEASURING INSTRUMENTS DEMONSTRATOR (Series 800)

S.N.	Particulars	Model No.
1.	Analog Multimeter Demonstrator (To Study Measurement of Current, Resistance, AC,DC Voltage)	SE-801
2.	Digital Multimeter-1 (To Study Measurement of AC, DC Voltage)	SE-802
3.	Digital Multimeter-2 (To Study Measurement of Resistance)	SE-803
4.	Digital Multimeter-3 (To Study Measurement of AC,DC Currents)	SE-804
5.	Digital Frequency Counter Demonstrator	SE-805
6.	Signal Generator Demonstrator	SE-806
7.	IC 7107 as DPM Demonstrator	SE-807
8.	Multirange DC Voltmeter using PMMC meter	SE-808
9.	Multirange DC Ammeter using PMMC meter	SE-809
10.	Multirange AC Voltmeter using PMMC meter	SE-810
11.	Multirange AC Ammeter using PMMC meter	SE-811
12.	Digital Multimeter Demonstrator	SE-812

9. ADVANCE TRAINERS (Series 900)

S.N.	Particulars	Model No.
Section A : Advance Communication Trainers		
1.	Colour TV Trainer, 21" Flat Picture Tube with Faults Creating Facility	SA-901
2.	Digital Satellite Receiver DTH Trainer with Dish Antenna (KU Band)	SA-903
3.	EPABX Demonstrator with P & T Interface facility, with Four Telephone sets & Faults Creating Facility (3X8 System)	SA-904
4.	Cordless Telephone Demonstrator	SA-905
5.	CD Player (DVD/VCD/ACD/MP3) Demonstrator with 3 Faults Creating Facility	SA-906
6.	Hi-Fi Public Address Amplifier Trainer with 5 Faults Creating Facility	SA-907
7.	Hi-Fi Stereo Amplifier Trainer with 5 Faults Creating Facility	SA-908
8.	Telephone Demonstrator with Faults Creating Facility	SA-909
9.	Antenna Simulator Trainer	SA-911
10.	AM Transmitter & Receiver Trainer (wireless link)	SA-912
11.	FM Transmitter & Receiver Trainer (wireless link)	SA-913
12.	FM Modulation & Demodulation (All types) Trainer	SA-914
13.	FM Modulation & Demodulation (All types) Trainer with Signal Generator	SA-914G
14.	AM/FM/PM Modulation & Demodulation Trainer	SA-915
15.	AM/FM/PM Modulation & Demodulation Trainer with Signal Generator	SA-915G
16.	PAM/PWM/PPM Modulation & Demodulation Trainer	SA-916
17.	PAM/PWM/PPM Modulation & Demodulation Trainer with Signal Generator	SA-916G
18.	ASK/FSK/PSK Modulation & Demodulation Trainer	SA-917
19.	ASK/FSK/PSK Modulation & Demodulation Trainer with Signal Generator	SA-917G
20.	Optical Communication Trainer with Digital Link	SA-918
21.	Optical Communication Trainer with Analog Link	SA-919
22.	Optical Communication Trainer with Analog & Digital Link	SA-920
23.	MODEM Demonstrator	SA-921
24.	TDM PAM (2 Channel) Modulation & Demodulation Trainer	SA-922
25.	TDM PCM Modulation (Transmitter) Trainer	SA-923
26.	TDM PCM Demodulation (Receiver) Trainer	SA-924
27.	Line Coding & Decoding Trainer	SA-925
28.	Data Formatting & Carrier Modulation (Transmitter) Trainer	SA-926
29.	Data Reformatting & Carrier Demodulation (Receiver) Trainer	SA-927
30.	Data Communication using LASER diode Trainer	SA-928
31.	Mobile Phone Communication Demonstrator	SA-929
32.	GSM Mobile Communication Demonstrator	SA-930
33.	LCD TV Trainer with Faults creating facility	SA-931
34.	LED HD TV Trainer with Faults creating facility (Digital TV)	SA-932
35.	AM/FM Radio Receiver with (5) Faults Creating Facility	SA-934
36.	Advance Fiber Optics Trainer	SA-935
37.	4G Mobile Phone Demonstrator	SA-936
38.	Audio System Demonstrator	SA-937
39.	RF Wireless Communication Trainer	SA-941
40.	Multi Channel Wireless Communication Trainer	SA-942
41.	RF Application based Trainer	SA-943
42.	GPS Trainer	SA-944

S.N.	Particulars	Model No.
43.	Bluetooth Trainer	SA-945
44.	DSB/SSB AM Transmitter	SA-946
45.	DSB/SSB AM Receiver	SA-947
46.	ASK/FSK Modulation & Demodulation Trainer with Signal Generator	SA-949
47.	TDM PCM (4 Channel) Modulation & Demodulation Trainer	SA-950
48.	Audio Amplifier (Quad/Dual) using IC STA540 Trainer	SA-951
Section B : General Trainers		
1.	DC Power Supply Demonstrator with faults creating facility (Single 0 -30V/2A)	SB-901
2.	Semiconductor Devices Characteristics Trainer with Digital Meters [Diodes (Semiconductor, Zener), Transistor (BJT,UJT,JFT,MOSFET), Photo Diode ,Photo Transistor, LDR, SCR,DIAC,TRIAC]	SB-902
3.	Characteristics of All Diodes (Semiconductor PN Junction, Zener, Schottky, Light Emitting LED , Varactor Diode)	SB-903
4.	Characteristics of All Diodes with Digital Meters (Semiconductor PN Junction, Zener, Schottky, Light Emitt ing LED , Varactor Diode)	SB-903DM
5.	Transistor Characteristics Trainer (BJT,UJT,JFET,MOSFET,IGBT)	SB-904
6.	Transistor Characteristics Trainer with Digital Meters (BJT,UJT,JFET,MOSFET,IGBT)	SB-904DM
7.	Photo conducting Devices Trainer	SB-905
8.	Photo conducting Devices Trainer with Digital Meters	SB-905DM
9.	SCR Gate Triggering Trainer (Turn -On Methods)	SB-906
10.	SCR Force Commutation (Turn -OFF Methods)Trainer All Types	SB-907
11.	UPS Demonstrator Offline 500 VA with 12V Battery	SD-406
12.	Inverter Demonstrator 500 VA with 12V Battery	SB-909
13.	AC SERVO Controlled Voltage Stabilizer Demonstrator	SB-910
14.	Power Electronics Trainer	SB-911
15.	Op-Amp IC 741 Characteristics (Parameter) Trainer	SB-912
16.	Op-Amp IC 741 Application Trainer	SB-913
17.	Op-Amp IC 741 Characteristics & Application Trainer	SB-914
18.	OP-AMP as Active Filter trainer all types	SB-915
19.	Linear IC Trainer	SB-916
20.	Timer IC 555 Trainer	SB-917
21.	Multivibrators using BJT	SB-918
22.	Multivibrators using BJT and OP-AMP	SB-919
23.	Multivibrators using IC 555	SB-920
24.	Multivibrators using BJT and Digital IC	SB-921
25.	Multivibrator Trainer using BJT, IC 555 & Op -Amp	SB-922
26.	Oscillators using Transistor Trainer (All types)	SB-923
27.	Oscillators & Multivibrator Trainer using BJT	SB-924
28.	Opto Electronics Components characteristics Trainer	SB-925
29.	Discrete Components Trainer	SB-926
30.	Analog Multimeter Demonstrator	SB-927
31.	Digital Multimeter Demonstrator (Part 1, 2 & 3)	SB-928
32.	Network Theorem Trainer (Thevenin, Norton, Millman, Superposition, Reciprocity, Maximum Power Transfer Theorem)	SB-929
33.	Camera and CCTV (Closed Circuit TV) Trainer	SB-930
34.	Bridges Trainer	SB-934
35.	Network Circuit Trainer	SB-935
36.	Components Testing Board	SB-936

S.N.	Particulars	Model No.
37.	Transistor Application Trainer	SB-938
38.	SCR,MOSFET, BJT Characteristics trainer with Digital meters	SE-940DM
39.	Home Electrical Wiring Trainer	SB-941
40.	Quartz Crystal Oscillator Trainer	SB-943
41.	BJT Amplifier Trainer (Single Stage CE,CB,CC, Two stage RC and Direct Coupled, Class A,B,C, Class AB Push Pull, Complementary Symmetry Push Pull Amplifier)	SB-944
Section C : Digital Electronics Trainers		
1.	Logic Gate Trainer using IC	SC-901
2.	Basic Digital IC Trainer (15 Experiments)	SC-902
3.	Digital IC Trainer (25 Experiments)	SC-903
4.	Advance Digital IC Trainer (50 Experiments)	SC-904
5.	Digital Counter Trainer	SC-905
6.	Digital Code Converter trainer	SC-906
7.	Flip-Flop Trainer	SC-907
8.	Digital Counter & Shift register Trainer	SC-908
9.	Shift Register Trainer	SC-909
10.	Multiplexer & Demultiplexer Trainer	SC-910
Section D : Breadboard Trainers		
1.	Bread Board Trainer	SD-901
2.	General Purpose Board Trainer	SD-902
3.	Analog and Digital Circuit Lab Trainer	SD-903
4.	Digital Circuit Lab Trainer	SD-904
5.	Analog Circuit Lab Trainer	SD-905
6.	Project Development Platform -Basic	SD-906
7.	Project Development Platform -Advance	SD-907
8.	Basic Bread Board Trainer	SD-908

10. INSTRUMENTATION & CONTROL SYSTEM (Series 1000)

S.N.	Particulars	Model No.
1.	Characteristics of RTD	SE-1001
2.	Characteristics of Thermocouple	SE-1002
3.	Characteristics of Thermister	SE-1003
4.	Characteristics of RTD & Thermister	SE-1004
5.	Temperature Measurement using RTD	SE-1005
6.	Temperature Measurement using Thermister	SE-1006
7.	Temperature Measurement using Thermocouple	SE-1007
8.	Temperature ON/OFF Controller using RTD/ Thermocouple (any one)	SE-1008
9.	Transducer Trainer (RTD , Thermister, Thermocouple)	SE-1009
10.	Calibration of Temperature Measuring System	SE-1010
11.	Characteristics of Temperature Sensor IC LM 355	SE-1011
12.	Characteristics of NTC Bridge	SE-1012
13.	Op-Amp as Non Inverting Amplifier with Thermister feedback	SE-1013
14.	Diode as Thermistor Device	SE-1014

S.N.	Particulars	Model No.
15.	Transistor as Temperature Sensor	SE-1015
16.	Measurement of Strain using Strain Gauge with Digital Display	SE-1016
17.	Measurement of Load using Load Cell with Digital Display	SE-1017
18.	Measurement of Pressure using Transducer with Digital Display)	SE-1018
19.	Measurement of Linear Displacement using LVDT with Digital Display	SE-1019
20.	Open Loop Control System	SE-1020
21.	Closed Loop Control System	SE-1021
22.	AC Position Control System	SE-1022
23.	DC Position Control System	SE-1023
24.	Proportional (P) Control System	SE-1024
25.	Proportional Integral (PI) Control System	SE-1025
26.	Proportional Integral Derivates (PID) Control System	SE-1026
27.	P,PI,PID Control System - Temperature control	SE-1027
28.	Characteristic of Potentiometer & its loading Effect	SE-1028
29.	Potentiometer as an Error Detector	SE-1029
30.	Linear & Logarithmic Potentiometer Characteristic	SE-1030
31.	Speed measurement using Optical Transducer	SE-1031
32.	Voltage Divider Network using LDR	SE-1032
33.	Flow measurement using Rota meter,Orifice, Venturi tube setup	SE-1033
34.	Humidity Measurement Demonstrator	SE-1034
35.	Pressure measurement using Burdon Tube, Pressure Gauge setup	SE-1035
36.	Capacitive Displacement Transducer	SE-1036
37.	Sensors Trainer -1	SE-1037
38.	Characteristics of RTD & Thermocouple	SE-1038
39.	Fire Alarm Trainer	SE-1039
40.	Temperature ON/OFF Controller using Thermister	SE-1040
41.	Sensors Trainer -2	SE-1041
42.	Microphone Sound Measurement Demonstrator	SE-1042
43.	Temperature ON/OFF Controller using Thermocouple	SE-1043
44.	Temperature Measurement using RTD & Thermocouple	SE-1044
45.	PH Meter Demonstrator	SE-1045

12. Renewable Solar Energy Lab (Series 1100)

S.N.	Particulars	Model No.
1.	Solar Cell Characteristics	SE-1101
2.	Solar Cell Characteristics with Digital Meters	SE-1101DM
3.	Solar Energy Applications Demonstrator	SE-1102
4.	Study of Solar Panel	SE-1103
5.	Solar Inverter Trainer	SE-1104

11. POWER SUPPLY (Series 3000)

S.N.	Particulars	Model No.
1.	Single DC Power Supply 0-30V/0-2A with 2 Digital Meters	S-3021
2.	Dual DC Power Supply 30-0-30V/0-2A with 4 Digital Meters	S-3022
3.	Multi DC Power Supply 0-30V/0-2A, 0- ±15V/1A, 0-5V/1A with 4 Digital Meters (Triple Power Supply)	S-3023
4.	Fixed DC Power Supply +5V / 1A	SF-3001
5.	Fixed DC Power Supply +12V / 1A	SF-3002
6.	Fixed DC Power Supply ± 12V / 1A	SF-3003
7.	Multi Fixed Power Supply +5V , ± 12V / 1A	SF-3004
8.	Variable Single DC Power Supply 0-12V/ 1A	SF-3005
9.	Variable Dual DC Power Supply 0- ± 12 V / 1A	SF-3006
10.	Variable Single DC Power Supply 0-15V/ 1A	SF-3007
11.	Variable Dual DC Power Supply 0- ± 15 V / 1A	SF-3008
12.	Fixed DC Power Supply +15V / 1A	SF-3009
13.	Fixed DC Power Supply ± 15V / 1A	SF-3010

12. DIGITAL V & I Meters (Series -DVI, DMVI)

S.N.	Particulars	Model No.
A	DIGITAL V I METER (DVI)	
1	DVI-01 : Range V-20V, I-20mA DC	DVI-01
2	DVI-02 : Range V-20V, I-200mA DC	DVI-02
3	DVI-03 : Range V-2V, I-2mA DC	DVI-03
4	DVI-04 : Range V-2V, I-20mA DC	DVI-04
5	DVI-05 : Range V-200V, I-200mA DC	DVI-05
B	DIGITAL MULTI V I METER (DMVI)	
1	DMVI-01 : Range V1-2V, I1-2mA, V2-20V, I2-20mA DC	DMVI-01
2	DMVI-02 : Range V1-2V, I1-2mA, V2-20V, I2-200mA DC	DMVI-02
3	DMVI-03 : Range V1-20V, I1-20mA, V2-20V, I2-200mA DC	DMVI-03
4	DMVI-04 : Range V1-20V, I1-20mA, V2-200V, I2-200mA DC	DMVI-04
5	DMVI-05 : Range V1-2V, I1-20mA, V2-200V, I2-200mA DC	DMVI-05



Please ASK For Product Specification Catalogue



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