

ELECTRONICS LAB

.....a total solution for Educational Lab Trainers



Features

- Tests a wide range of Digital IC's such as 74 Series, 40/45 Series of CMOS IC's.
- It can test Microprocessor 8085, 8086, Z80.
- It tests Peripherals like 8255, 8279, 8253, 8259, 8251, 8155, 6264, 62256, 8288, 8284.
- It tests a wide range of Analog IC's such as ADC, DAC, Opamp, 555, Transistor Arrays, Analog Switches, Waveform Generator, Line Drivers, Voltages Regulators, PLL's, VCO, PWM Generator, Sample & Hold, Voltages References, Opto couplers, Comparators, Voltages Followers and Others.
- It tests Seven segment display of common cathode & common anode type
- It has Auto search facility for Digital IC's.
- Test by: Truth table/sequence table comparison.
- ZIF: Two Nos. of 40 pin DIP ZIF sockets for Digital & Analog IC's.
- Keys: 50 cherry keys Key pad with numerical & functional keys.
- Display: 16x2 Backlit LCD Display
- Supply Input Voltage: 230V AC.

Device Supports

DIGITAL IC's

T.T.L. 74XXX series

7400 7401 7402 7403 7404 7405 7406 7407 7408 7409 7410
7411 7412 7413 7414 7415 7416 7417 7418 7419 7420 7421
7422 7423 7424 7425 7426 7427 7428 7430 7432 7433 7437
7438 7439 7440 7442 7443 7444 7445 7446 7447 7448 7449
7450 7451 7453 7454 7462 7464 7465 7470 7471 7472 7473
7474 7475 7476 7478 7483 7485 7486 7489 7490 7491 7492
7493 7495 7496 7497 74107 74109 74112 74113 74114 74116
74121 74122 74123 74125 74126 74128 74132 74133 74134
74135 74136 74137 74138 74139 74140 74141 74145 74147
74148 74150 74151 74152 74153 74154 74155 74156 74157
74158 74159 74160 74161 74162 74163 74164 74165 74166
74168 74169 74170 74172 74173 74174 74175 74176 74177
74180 74181 74182 74183 74184 74185 74189 74190

74191 74192 74193 74194 74195 74196 74197 74198 74221
74238 74240 74241 74242 74243 74244 74245 74246 74247
74248 74249 74251 74253 74256 74257 74258 74259 74260
74266 74273 74279 74280 74283 74290 74293 74298 74299
74322 74340 74341 74344 74347 74348 74350 74351 74352
74353 74354 74365 74366 74367 74368 74373 74374 74375
74377 74378 74379 74381 74382 74386 74390 74393 74395
74398 74399 74412 74423 74425 74426 74445 74447 74490
74521 74534 74540 74541 74543 74544 74563 74564 74573
74574 74575 74577 74580 74589 74590 74591 74595 74596
74620 74621 74622 74623 74638 74639 74640 74641 74642
74643 74645 74646 74647 74648 74649 74652 74668 74669
74670 74688 74689 74786 74800 74802 74804 74805 74808
74832 74841 74874 74901 74902 74903 74904 74906 74C923
74C925 74C926 74C927 74C928 74C929 74989 741244
741245 741623 741621 741639 741640 741641 741642
741643 741644 741645 743037 743038 74H01 74LS51 74H54
74L54 74L71 74H71 74LS73 74LS76 74LS78 74L85 74L86
74C89 74L93 74L95 74LS107 8280 8281 8290 8291

CMOS (40/45 XX SERIES)

4000 4001 4002 4006 4007 4008 4009 4010 4011 4012 4013
4014 4015 4017 4018 4019 4020 4021 4022 4023 4024 4025
4026 4027 4028 4029 4030 4031 4032 4033 4034 4035 4038
4040 4041 4042 4043 4044 4047 4048 4049 4050 4054 4055
4056 4060 4063 4067 4068 4069 4070 4071 4072 4073 4075
4076 4077 4078 4081 4082 4085 4086 4093 4094 4095 4096
4098 4099 40105 40106 40107 40109 40147 40160 40161
40162 40163 40174 40175 40181 40182 40192 40193 40194
40195 40244 40245 40257 40373 40374 40097 40098 4490
4502 4503 4504 4506 4507 4508 4510 4511 4512 4514 4515
4516 4518 4519 4520 4522 4526 4527 4528 4531 4532 4534
4538 4539 4541 4543 4544 4555 4556 4558 4562 4566 4572
4584 4585 4599 4723 4724 4727 4801 5801

CPU

8085 8086 V20 8088 8400(Z80) 6502 65C02 65SC02 8035
8039 8748 8749

PERIPHERAL

8155 8156 8205 8212 8216 8226 8237 8251 8253 8254 8255
8257 8259 8279 8282 8283 8284 8286 8287 8288 8250 82450
6350 6820 6821 6822 6840 6844 6845 6850 6851 6852 6854
6520 6521 6522 6524 6551 65C51 8420(Z80-PIO) 8430(Z80-
CTC) 8440 (SIO-0) 8441 (SIO-1) 8442 (SIO-2) 8449 (SIO-90)
1852 1871 1879 2681

MEMORY

2102 2114 2115 2125 2149 6116 6264 62256 621024 9101
91L22 93412 93422 93425 4256 41256 5025

REAL TIME CLOCK

1879 5832 58167 82C8167 DS1287

PHASE FREQUENCY DETECTOR

MC4044 Mc4344

DECODER/ENCODER

1441 1442

SUPERVISORY CIRCUITRY

Dallas 1231 1232

SEVEN SEGMENT DISPLAY

LT542 LT543

OSCILLATOR / DIVIDER

5369

LINEAR IC'S

ANALOG TO DIGITAL CONVERTER

ADC0800 ADC0801 ADC0802 ADC0803 ADC0804 ADC0805
ADC0808 ADC0816 ADC0817 AD5747 109 3162 ADC0809

UNIVERSAL IC TESTER

DIGITAL TO ANALOG CONVERTER

DAC08 DAC0800 DAC0801 DAC0802 DAC0808 DAC1408
DAC1508 DAC558 DAC1020 DAC1021 DAC1022 DAC1220
DAC1221 DAC1222 DAC7520 DAC7521 DAC7523 DAC7524
DAC7530 DAC7531 DAC7533 DAC7541

COMPARATOR

106 111 160 193 211 260 293 311360 393 2903 17393 CA3290
111 119 139 161 211 219 239 261 311 319 339 361 2901 3302
17339 521 522 527 529 211 2211 2311

OP-AMP

AD548 AD648 AD707 AD708 AD71 1 AD712 AD744 AD746
AD821 AD845 AD846 AD847 AD848 AD849 CA081 CA082
CA307 CA3100 CA3130 CA3140 CA3193 CA3240 CA3160
CA3260 LF 351 353 386 412 442 LM 1011101 107 108 12 118
143 155 156 157 158 201 207 208 212 218 255 256 257 258 301
307 308 312 318 343 355 356 357 358 41441 530 531 532 538
714 725 741 748 1458 1558 2904 3080 33181 4250 4558 5204
5205 5230 5512 5532 5534 5535 13741 17301 17741 17458
17558 OP05 OP07 OP21 OP27 OP37 OP A121 OPA602
OPA606 OPA11 TL061 TL062 TL071 TL072 TL081 TL082
LT1013 709 1709 7611 7612 7621 AD713 AD840 AD841 AD842
CA084 LM 11 101 107 108 112 118 124 147 148 149 201 207
208 212 218 224 248 249 301 307 308 312 318 324 347 348 349
442 444 534 725 741 747 748 2900 2902 3303 3403 3503 5514
17301 17741 TL064 TL074 TL084 OPA404 7641 7642 LT1014
524 5533

VOLTAGE FOLLOWER

110 210 310 102 10 202 210 302 310

LINE DRIVERS & RECEIVER

1488 1489 3486 3487 75107 75108 75110 75114 75121 75174
75175 75176 75182 75183 75188 75189 75450 75451 75452
75453 75454 75477 75491 75492 75494 7820 7830 7831 7832
8820 8830 8831 8832 26LS31 26LS32 96174 96175 145406
10125

TRANSISTOR ARRAY

394 CA3028 CA3046 CA3053 CA3054 CA3146 CA3083
CA3086 ULN2001 ULN2003 ULN2004 ULN2005 ULN2015
ULN2011 ULN2013 ULN2014 ULN2021 ULN2023 ULN2024
ULN2069 ULN2025 ULN2064 ULN2065 ULN2068 ULN2801
ULN2803 ULN2815 ULN2804 ULN2805 ULN281 1 ULN2813
ULN2814 ULN2821 54566 ULN2823 ULN2824 ULN2825 L601
L603 L604

ANALOG SWITCH

4016 4051 4052 4053 4066 6108 6208 1 1201 11202 11331
11508 11509 13201 13202 13331 11332 13332 13508 13509
14016 14051 14052 14053 14066 DG200 DG201 DG202
DG308 DG309 DG211 DG212 DG506 DG507 DG508 DG509

WAVEFORM GENERATOR

8038

TIMER

555 556 7555

PLL

565 567N 4046

VCO

131 231 331 131A 231A 331A 4151 566N

SAMPLE AND HOLD

198 298 398 5537

PWM GENERATOR

1524 2524 3524 494 594 3525

DPM IC

7106 7107 7116 7117 7126 7136 7137

OPTO-COUPLER

4N25 4N26 4N27 4N28 4N32 4N33 4N35 4N36 4N37 4N38
6N135 6N136 6N137 6N138 6N139 6N140 CNY171 CNY172
CNY173 H11A1 H11C1 H11C4 H11D1 H11D2 H11G1 H11G2
MCT2 MCT2E MCT6 MCT26 MCT210 MCA230 MCA231
MCA255 MOC3006 MOC3010 MOC3020 MOC3021
MOC3022 MOC3023 MOC3030 MOC3040 MOC3041
MOC3061 MOC3063 TIL111 TIL112 TIL113 TIL114 TIL115
TIL116 TIL117 TIL118 TIL119 TIL126 TIL155 HCPL 2531 2631
2731 2502 2602 2601 2630 3700 SFH600_0 SFH600_3
SFH610_1 SFH610_2 SFH61 1_1 SL5500 SL5501 PC817
PS2041 2501 EECF

CROSS POINT SWITCH

22100 22101 42100 45100

LATCH DRIVER

UCN4801 UCN5801

VOLTAGE REGULATOR

7805 78L05 78M05 78T05 7806 7808 7812 7815 7824 7905
79L05 79M05 7906 7908 7915 7918 117 117L 117M 217 217L
217M 317 317L 317M 337 18512 28512 38512 18525 28525
38525 2930 2931 723

VOLTAGE REFERENCE

185_1.2 185_2.5 285_1.2 285_2.5 385_1.2 385_2.5

DOT/BAR Display Driver

3914 3915

OPAMP AND COMPARATOR

192 292 392 2924

OVER VOLTAGE CROWBAR SENSING CIRCUIT

3423 3523

LED FLASHER

3909

FREQUENCY TO VOLTAGE CONVERTER

2907 2917.

Subject to change

