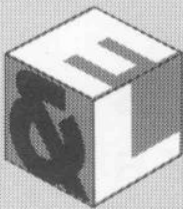# E & L Instruments

INDUSTRIAL PLD TRAINER

PROGRAMMABLE LOGIC DEVICES

- **FULLY INTEGRATED PLD (PROGRAMMABLE LOGIC DEVICES) TRAINING AND FUNCTIONAL PROGRAMMING SYSTEM**

- **RESEARCH & DEVELOPMENT DEPARTMENT APPLICATIONS FOR ALL PLD PROGRAMMING REQUIREMENTS**

- **IMPLEMENT ALL FUNCTIONS TO EASILY PROGRAMME, TEST AND USE PLD's**

- **LARGE BREADBOARDING AREA AND WIDE CHOICE OF BUILT-IN CIRCUIT ACCESSORIES**

- **PLD TRAINER INCLUDES PROGRAMMING INTERFACE TO PARALLEL PORT OF P.C. AND COMPREHENSIVE SOFTWARE WITH MANUALS**

- **TRAIN TECHNICIANS & ENGINEERS IN PROGRAMMING, TEST AND APPLICATION OF PLD's**

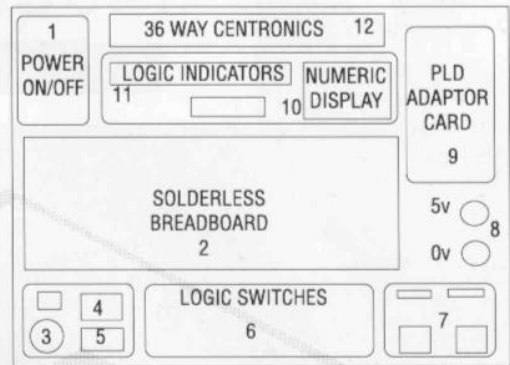- **STEP-BY-STEP LEARNING OF PLD PROGRAMMING**

INDUSTRIAL P.L.D TRAINER

FEATURES

- PERFORM LOGIC DESIGN AND SIMULATION BEFORE SELECTING A TARGET DEVICE.

- SINGLE UNIFIED HARDWARE DESCRIPTION LANGUAGE WHICH INTEGRATES DESIGN, TEST, DEVICE MAPPING AND DEVICE MODELLING.

- SINGLE EASY-TO-USE PROGRAMME FOR DESIGN, MINIMISATION, DEVICE MAPPING AND SIMULATION - NO NEED TO LEARN MULTIPLE PROGRAMMES.

- INDUSTRY STANDARD JEDEC FILES FOR DEVICE PROGRAMMING AS WELL AS COMPREHENSIVE DESIGN DOCUMENTATION FILES.

- IMPORT EXISTING PLD DEVICES BY LOADING THEIR JEDEC FILES.

- PLD SIMULATOR HELPS YOU THROUGH THE TESTING PROCESS.

- SYSTEM CAN BE UPGRADED TO ACCOMMODATE NEW DEVICE RELEASES

- CAN SIMULATE MULTIPLE DEVICES SIMULTANEOUSLY.

- SUPPORTS AN EXTENSIVE RANGE OF PLD's.

- POWERFUL SOURCE-LEVEL DEBUGGING CAPABILITY.

CONTENTS

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 1          36 WAY CENTRONICS      12
POWER   ┌─ LOGIC INDICATORS  NUMERIC       PLD
ON/OFF  │  11              10  DISPLAY    ADAPTOR
                                            CARD
                                             9
           SOLDERLESS                     5v  ◯
           BREADBOARD                          8
               2                          0v  ◯

   ┌─ 4      LOGIC SWITCHES
 ③ └─ 5           6                         7
```

- **PLD TRAINER**
   1. Power ON/OFF switch
   2. Solderless bread-board
   3. BNC Input/Output connector.
   4. 1 Hz clock
   5. Debounced pushbutton (TTL compatible output)
   6. 8 x Logic switches
   7. 2 x Hex switches (4-bit)
   8. Power supply 5v/500mA (for external circuits)
   9. Programming interface (10 way connector & daughterboard - upgradeable)
   10. 7 - segment numeric display
   11. Logic indicators - 8 x LED's
   12. Parallel Port Connector (PC Interface)

- **CENTRONICS CABLE**
   36 way PC interface

- **SOFTWARE FOR PC**
   Manual - Education Version
   2 x diskettes (PLD)
   1 x diskette (Trainer)

- **SYSTEM MANUAL - PLD TRAINER**
   Software users guide
   Logic fundamentals
   ispGAL devices
   PLD programme examples

In addition to PLD's, E&L provides a complete line of electronic training equipment, tutorial manuals and accessories including solderless breadboarding sockets, logic design trainers, analogue/digital trainers, educational software, automative packages and a full range of test & measuring equipment

INDUSTRIAL PLD COURSES ARE AVAILABLE EITHER RESIDENTIAL OR IN-HOUSE, TAILORED TO YOUR NEEDS. IDEAL FOR ANYONE FROM INDUSTRY OR EDUCATION WISHING TO GAIN AN UNDERSTANDING OF PLD's. BASIC OR ADVANCED.