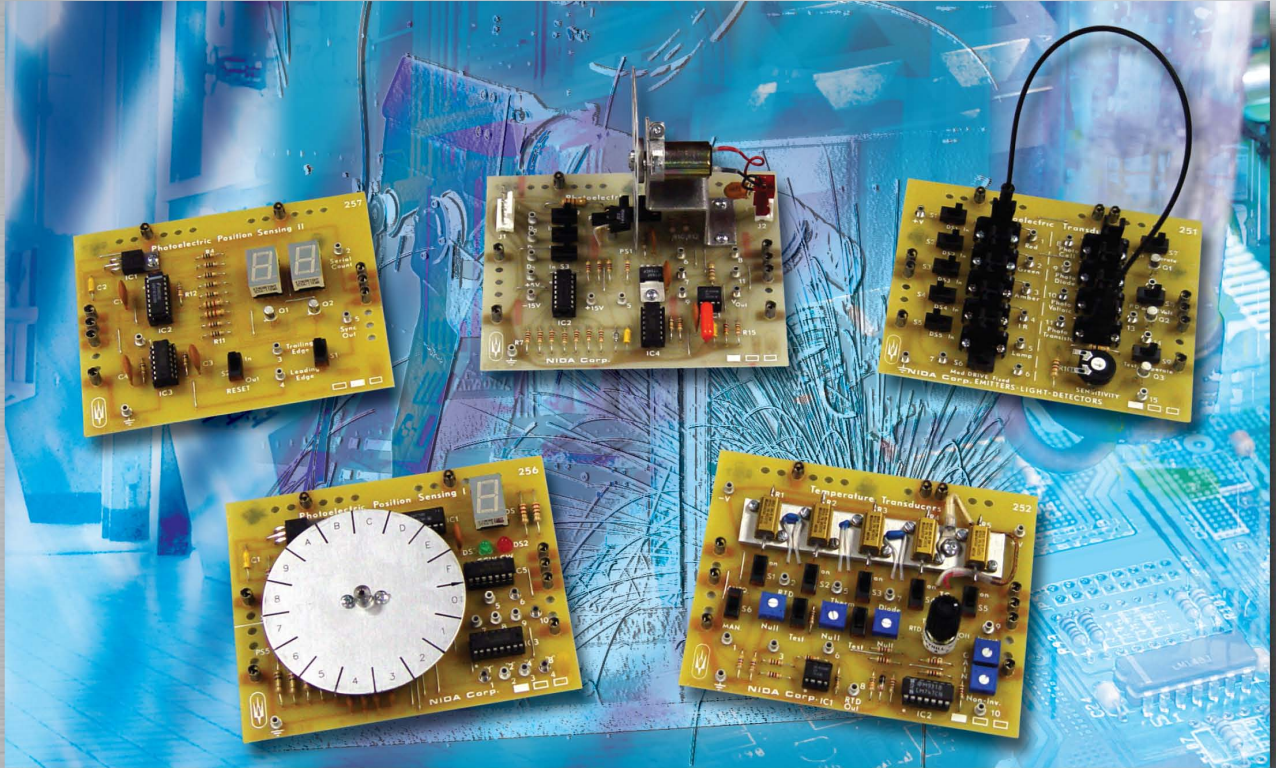


Transducers



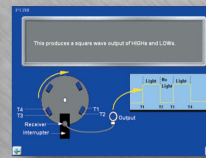
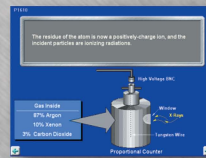
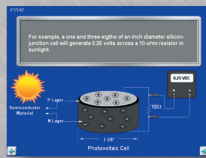
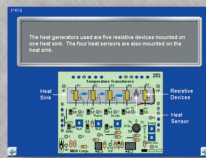
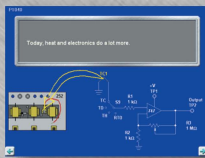
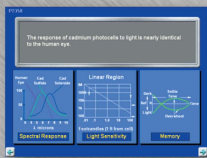
Sensing the Motion of Industry

Using automated processes, manufacturing plants quickly assemble vast numbers of widgets. Saw mills optimise logs to maximise their board yield. Packaging departments electronically fill cartons with incredible precision. Automotive assembly lines stamp, weld, and shape car bodies with pin-point accuracy. All of these operations require transducers to send information on location, counts, routing, and manoeuvring to the PLCs and microprocessors that control the machinery. The E & L-Nida Transducers

courseware is designed to provide technicians with a solid foundation in the theory and operation of light, heat, motion, position, and sound transducers. Developed from industry input and standards, E & L-Nida Transducers lessons combine practical concepts and principles with hands-on experimentation. Available in both hardcopy text and computer-based instruction, the E & L-Nida Transducers courseware is the perfect addition to your industrial maintenance training programme.

E & L-Nida Transducers

The E & L-Nida Transducers courseware can be used independently or with other E & L-Nida Industrial Technology courseware components. The courseware is divided into sections that provide transducer theory, experimentation, and assessment. The theoretical section teaches the principles of several types of transducers while the experimentation section provides operation and troubleshooting scenarios based on the E & L-Nida Model 1405 Transducer Experiment Boards Set. Students completing the E & L-Nida Transducers courseware will possess a fundamental knowledge of transducer theory and the skills to successfully troubleshoot, align, and repair transducer systems.



Topics

Light Transducers

- Introduction to Transducers
- Nature of Light
- Light Transducers
- Light Transducer Operation

Heat Transducers

- Nature of Heat
- Heat Transducers
- Heat Transducer Operation

Motion Transducers

- Nature of Motion
- Motion Transducers
- Motion Transducer Operation

Position Transducers

- Nature of Position
- Position Transducers
- Position Transducer Operation

Sound Transducers

- Introduction to Ultrasonics
- Ultrasonic Transducers

Supporting Hardware

- Model 130E Test Console
- Model 4050 Test Instrument Module
- Model 1405 Transducer Experiment Boards Set

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