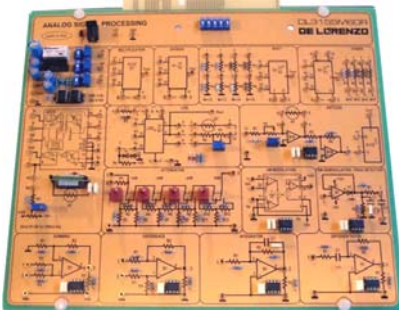


TIME ELECTRONIC BOARDS



ANALOGUE SIGNAL PROCESSING



DL 3155M60R

Theoretical topics:

- Familiarization with analogue computing technique
- Basic and advanced linear operations
- Simultaneous multiplication and division
- Analog computation of powers and roots
- Log ratio computation
- Antilog computation
- Square root operation
- Attenuator overview
- Characteristics and key specifications for fixed and step attenuators
- Audio attenuators
- Forms of amplitude modulation
- Amplitude modulation and demodulation methods
- The Operational Amplifier characteristics
- Main configurations of the OA
- Fault simulation

Circuit blocks:

- Reference power supply unit
- Real-time Analog computational unit
- One-quadrant multiplication unit
- One-quadrant division unit
- Root circuit
- Power circuit
- Log ratio operation with thermic compensation
- Antilog operation with thermic compensation
- Attenuator
- Amplitude modulation and demodulation
- Non inverting summing block
- Difference amplifier
- Integrator
- Differentiator (Shunt)