



**Sciencetech 2730** is a compact and user friendly Learning platform which is very useful for students to understand the concept of PWM generation technique, and Forward Converter topology on various load configurations. It is also helpful for understanding the Converter output on various filter configurations. Platform explains PWM generation technique, Forward converter operation, and power isolation circuit to measure the isolated output.

### Features

- Easy to operate & understand
- Optically isolated PWM generation with Gate driver
- Inbuilt isolation section for measurement of the signal
- Test Points provided at output of each section to measure the signals

### Scope of Learning

- To study PWM generation
- To study Forward Converter with different filter components and loads

### Technical Specifications

<b>Input DC Voltage</b>	: 24V/1A
<b>PWM Frequency Variation</b>	: 8 KHz to 92KHz
<b>Duty Cycle Variation</b>	: 8% to 35%
<b>Load Assembly</b>	: RL1 & RL2 (75Ω & 75Ω)
<b>Power Isolation Section</b>	: Single channel
<b>Power device</b>	: MOSFET IRF450
<b>MOSFET/IGBT Driver</b>	: MC33153
<b>Inductors</b>	: L1 (91μH), L2 (174 μH)
<b>Capacitors</b>	: C4 (1000μF/63V) C5 (470μF/63V)
<b>Test Points</b>	: 16 nos.
<b>Banana Socket insert 2mm:</b>	: 31 nos.
<b>Product Tutorial</b>	: Online on <a href="http://www.SciencetechLearning.com">www.SciencetechLearning.com</a>
<b>Dimensions (mm)</b>	: W 326 x D 252 x H 52
<b>Power Supply</b>	: 110V - 260V AC, 50/60Hz
<b>Weight</b>	: 1.5Kg (approximately)
<b>Operating Conditions</b>	: 0-40°C, 85% RH
<b>Included Accessories</b>	: 2mm Patch Cord 16" -3nos. 2mm Patch Cord 8" -5nos. BNC to BNC Cable-1no. BNC to Test Probe-1no. Mains Cord-1no.