The unit is one of a range of digital communication trainers and provides all necessary inputs and connections for students to study signal sampling and reconstruction techniques.

**Experiments**
- Sampling and reconstruction of signal.
- The effect of II order and IV order low pass filter on reconstructed signal.
- The effect of sample amplifier and sample and hold amplifier on reconstructed signal.
- The Nyquist criteria for sampling and reconstruction of signal.
- The effect of sample /hold circuit on reconstructed signal.
- Effect of sampling pulse duty cycle on the reconstructed signal in sample and sample hold output.
- Comparison responses of 2nd order and 4th order LPFs.
- Verification sampling and reconstruction data transmission scheme for

**Specification**
- Crystal Frequency: 8 MHz
- Sampling Frequency: 20, 50, 80, 100, 200 & 400 KHz (Switch Selectable)
- On-Board Generator: Synchronised 1KHz Sine wave (5Vpp)
- Duty cycle: 0-90% in decade steps (Switch Selectable)
- L. P. Filters: Butterworth 2nd & 4th order; Filter
- Cut-off frequency: 3.4 KHz
- Test Points: 50
- Power: 110-220V, 50Hz
- Dimensions (mm): W326, H52, D252
- Weight: 1.5Kg (approx.)
### Ordering Information

**Model Number:** 7401  
**Consists of:**  
- Sampling and reconstruction trainer  
- Manuals  
- Power Cord  
- Set of patch cables

### Notes.
1. Specification is subject to change without notice.  
2. All dimensions are in mm unless otherwise stated

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