

FIBRE-OPTICS TRAINER HIGHER BANDWIDTH OPTION

Bandwidth of Higher Bandwidth Option Transmitter/Receiver Combination:

Analogue: 20Hz to 300kHz

Digital: d.c. to 500kBit/s

AMENDED FIBRE-OPTICS TRAINER SPECIFICATIONS

The Fibre-Optics Trainer Higher Bandwidth Option has the following amended specifications with reference to the specifications of the standard Fibre-Optics Trainer:

a) Transmitter/Receiver Combination

Bandwidth:

Analogue: 20Hz to 300kHz

Digital: d.c. to 500kBit/s

Range for analogue transmission (better than 20dB S.N.R.): 19dB

Range for digital transmission (better than 1 in 10^9 error rate): 6dB

b) Transmitter

Typical power launched into 1mm plastic fibre: 20 μ W peak at 10V supply

Analogue frequency response: 7Hz to 500kHz

c) Receiver

Digital Bandwidth: d.c. to 500kBit/s for less than 30% pulse width distortion

Minimum power for better than 1 in 10^9 error rate: 5 μ W peak at 650nm

Output impedance:

'space': 47 Ω

'mark': 470 Ω

Maximum Pulse Width Distortion: 600nS

Analogue Frequency Response: 15Hz to 350kHz

Minimum Power for 20dB S.N.R: 250nW pp at 650nm

Typical analogue signal response: 0.037V per μ W at 650nm

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