OPTICAL FIBER COMMUNICATION TRAINER

Model Number : GOTT-OFC-334

 DESCRIPTION Textbook includes the theoretical and practical details Textbook includes the expected results for reference Problem discussion attached together with answers for instructor Only need oscilloscope and spectrum analyzer to obtain the measure results. 				
RANSMITTER MODULE			CODE 334-00	
	 Transmitted light wavelength: 660 nm and 820 Data rate: 1 Mbps. Transmitter bandwidth: 1 MHz. Includes digital and analog transmitters, and a Built-in microphone input terminal and audio 6 Built-in sine wave output signal, and also inclu Amplitude: 2 Vpp; Frequency : 100 Hz ~ 2.5 kH Built-in digital data generator, used to produce The wavelength of optical fibers transmission 	Iso covers with E/O conversion circuit. amplifier. des tunable amplitude and frequency output. Iz.		
RECEIVER MODULE			CODE 334-00	
		covers with O/E conversion circuit.		
NALOG AND DIGITAL SIGNAL N			CODI 334-00	
	 AM Modulation and Demodulation AM Modulation: Carrier Signal: 540 kHz ~ 1600 kHz. Audio Frequency Signal: 1 kHz ~ 2 kHz. AM Demodulation: Carrier Signal: 540 kHz ~ 1600 kHz. Audio Frequency Signal: 1 kHz ~ 2 kHz. Modulation Index: 50%. 	 CASK Modulation and Demodulation ASK Modulation: Carrier Signal: 20 kHz ~100 kHz. Data Signal: 100 bps ~ 1 kbps. ASK Demodulation: Carrier Signal: 20 kHz ~ 100 kHz. Data Signal: 100 bps ~ 1 kbps. FSK Modulation and Demodulation 		

 Image: Solution to Education Training System
 N-18

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DIGITAL SIGNAL PROCESSING M	ODULE	COI 334-
	 Signal Source Encoder and Decoder (CVSD) Sampling Frequency: 16 kHz ~ 50 kHz. Audio Frequency Signal: 100 Hz ~ 2 kHz. TTL input and output level signals. Channel Encoder and Decoder (Manchester) Input TTL level signal. CLK: 500 Hz~1 kHz. Data Rate: 250 bps~500 bps. 	
TV SIGNAL MODULATOR AND D	EMODULATOR	COI 334-
	 TV Signal Generator Built-in 4 MHz quartz crystal oscillator. 8 selected types of TV signal. Output signal: ladder wave signal. Output frequency: 15.6 kHz. TV Signal Modulator Audio signal: FM demodulating signal. FM carrier signal: 5.5 MHz. Horizontal signal is demodulated by using the Built-in low-pass filter to remove the noise of the Signal Modulator Audio signal: FM modulating signal. FM carrier signal: 5.5 MHz. Built-in audio signal generator. Output frequencies of the Signal PL statement of the	of the audio signal. uency : 100Hz ~ 1 kHz; Output amplitude : 600 mV ~ 1.2V.
DC POWER SUPPLY & FUNCTION	I GENERATOR (OPTIONAL ITEM)	COI 500-
Transfer Green dar (1) Transfer Green dar (1) Transf	 DC Power Supply Tripple Bipolar Voltage Outputs DC 0 - +/-15V DC +/-5V DC +/-12V Constant & variable Voltage Operation Low Ripple and Noise 	 Function Generator Two Signals Output Ports Frequency Range : FG (I): 0 – 10Hz FG (II): 0 – 100Hz 0 – 100kHz 0 – 1kHz 0 – 1kHz 0 – 10kHz 0 – 10kHz 0 – 100kHz 0 – 100kHz 0 – 100kHz Waveform : Sine, Triangle, Square, TTL Pulse Amplitude : 10Vpp Built-in-6-Digit Frequency Counter Two Large 0.5" LED Display Overload Protection
Manuals: (1) All manuals are written in English (2) Model Answer (3) Teaching Manuals	General Terms: (1) Accessories will be provided wher (2) Manuals & Training will be provid (2) Designs & Specifications are subje	ed where applicable.

(2) Model Answer(3) Teaching Manuals

- (3) Designs & Specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
OPTICAL FIBER COMMUNICATION TRAINER	GOTT-OFC-334	334-000
DC POWER SUPPLY AND FUNCTION GENERATOR	GOTT-DC POWER SUPPLY & FUNCTION GENERATOR	500-107

 \ast Proposed design only, subject to changes without any notice.