

ANALOG COMMUNICATION TRAINER

Model Number : GOTT-ACT-9329



DESCRIPTION

- Design and implementation of second order active filters and RF oscillators.
- Design and implementation of AM and FM modulator and demodulator.
- Design and implementation of DSB/SC and SSB modulator and demodulator.
- Design and implementation of TDM and FDM multiplexer and demultiplexer.
- Design and implementation of frequency converter and signal recovery.

FEATURES

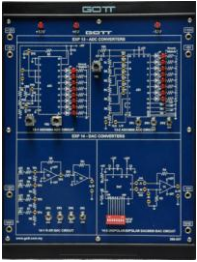
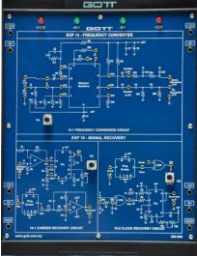

- Textbook includes the theoretical and practical details.
- Textbook includes the expected results for reference.
- Problem discussion attached together with answers for instructor
- Only need oscilloscope to obtain the measured results.

PRODUCT MODULES

SECOND ORDER ACTIVE FILTER & RF OSCILLATOR	CODE 600-101	FM DEMODULATOR & FM MODULATOR	CODE 600-104
	<p>Second Order Active Filters</p> <ul style="list-style-type: none"> • Experiment 1: Second Order Active Low-pass Filter • Experiment 2: Second Order Active High-pass Filter • Experiment 3: Second Order Active Band-pass Filter • Experiment 4: Second Order Active Band-stop Filter <p>RF Oscillators</p> <ul style="list-style-type: none"> • Experiment 1: Colpitts Oscillator • Experiment 2: Hartley Oscillator • Experiment 3: Crystal Oscillator • Experiment 4: Voltage Controlled Oscillator 		<p>FM Demodulator</p> <ul style="list-style-type: none"> • Experiment 1: MC4046 FM Modulator • Experiment 2: LM565 FM Modulator <p>FM Modulator</p> <ul style="list-style-type: none"> • Experiment 1: MC4046 FM Demodulator • Experiment 2: LM566 FM Demodulator
AM MODULATOR & AM DEMODULATOR	CODE 600-102	TDM MULTIPLEXER & TDM DEMULTIPLEXER	CODE 600-105
	<p>AM Modulator</p> <ul style="list-style-type: none"> • Experiment 1: Transistor AM Modulator • Experiment 2: MC1496 AM Modulator <p>AM Demodulator</p> <ul style="list-style-type: none"> • Experiment 1: Diode Detector • Experiment 2: Product Detector 		<p>TDM Multiplexer</p> <ul style="list-style-type: none"> • Experiment 1: Waveform Generator • Experiment 2: TDM Multiplexer <p>TDM Demultiplexer</p> <ul style="list-style-type: none"> • Experiment 1: TDM Demultiplexer
DSB-SC AND SSB MODULATOR & DSB-SC AND SSB DEMODULATOR	CODE 600-103	FDM MULTIPLEXER & FDM DEMULTIPLEXER	CODE 600-106
	<p>DSB-SC and SSB Modulator</p> <ul style="list-style-type: none"> • Experiment 1: DSB-SC Modulator • Experiment 2: SSB Modulator <p>DSB-SC and SSB Demodulator</p> <ul style="list-style-type: none"> • Experiment 1: Product detector of DSB-SC Demodulator • Experiment 2: Product detector of SSB Demodulator 		<p>FDM Multiplexer</p> <ul style="list-style-type: none"> • Experiment 1: FDM Signal Generator • Experiment 2: DSB-SC Modulated Signal Generator • Experiment 3: FDM Multiplexer <p>FDM Demodulator</p> <ul style="list-style-type: none"> • Experiment 1: FDM Demultiplexer

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ANALOG-TO-DIGITAL CONVERTER & DIGITAL-TO-ANALOG CONVERTER		CODE 600-107	FREQUENCY CONVERTER & SIGNAL RECOVERY		CODE 600-108								
	<p>Analog-to-Digital Converter</p> <ul style="list-style-type: none"> Experiment 1: ADC0804 Analog-to-digital Converter Experiment 2: ADC0809 Analog-to-digital Converter 			<p>Frequency Converter</p> <ul style="list-style-type: none"> Experiment 1: Frequency Multiplier Experiment 2: Up/Down Frequency Converter 									
	<p>Digital-to-Analog Converter</p> <ul style="list-style-type: none"> Experiment 1: R-2R Network DAC Experiment 2: DAC 0800 Converter 			<p>Signal Recovery</p> <ul style="list-style-type: none"> Experiment 1: Carrier Signal Recovery Circuit Experiment 2: Clock Recovery Circuit 									
DC POWER SUPPLY & FUNCTION GENERATOR (OPTIONAL ITEM)					CODE 500-107								
	<p>DC Power Supply</p> <ul style="list-style-type: none"> Tripple Bipolar Voltage Outputs <ul style="list-style-type: none"> DC 0 – +/-15V DC +/-5V DC +/-12V Constant & variable Voltage Operation Low Ripple and Noise 		<p>Function Generator</p> <ul style="list-style-type: none"> Two Signals Output Ports Frequency Range : <table border="0" style="width: 100%;"> <tr> <td>FG (I): 0 – 10Hz</td> <td>FG (II): 0 – 100Hz</td> </tr> <tr> <td>0 – 100kHz</td> <td>0 – 1kHz</td> </tr> <tr> <td>0 – 1kHz</td> <td>0 – 10kHz</td> </tr> <tr> <td>0 – 10kHz</td> <td>0 – 100kHz</td> </tr> <tr> <td>0 – 100kHz</td> <td>0 – 1MHz</td> </tr> </table> Waveform : Sine, Triangle, Square, TTL Pulse Amplitude : 10Vpp Built-in-6-Digit Frequency Counter Two Large 0.5" LED Display Overload Protection 	FG (I): 0 – 10Hz	FG (II): 0 – 100Hz	0 – 100kHz	0 – 1kHz	0 – 1kHz	0 – 10kHz	0 – 10kHz	0 – 100kHz	0 – 100kHz	0 – 1MHz
	FG (I): 0 – 10Hz		FG (II): 0 – 100Hz										
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Manuals:

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

General Terms:

- (1) Accessories will be provided where applicable.
- (2) Manuals & Training will be provided where applicable.
- (3) Designs & Specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty:

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
ANALOG COMMUNICATION TRAINERS	GOTT-ACT-9329	600-000
DC POWER SUPPLY AND FUNCTION GENERATOR	GOTT-DC POWER SUPPLY & FUNCTION GENERATOR	500-107

* Proposed design only, subject to changes without any notice.