OMEGA®

A SIGN OF QUALITY PRODUCT

COMPENSATION DESIGN

OMEGA TYPE ICT-909

OMEGA TYPE ICT-909 is designed to study practical feedback control systems which is often required to satisfy design specifications in the transient as well as steady state regions. This is usually not possible by selecting good quality components alone, due to basic physical limitations and characteristics of these components. Cascade compensation is most commonly used for this purpose and the design of compensation networks figures prominently in any course on automatic control systems. This unit has been designed to enable the students to go through the complete design procedure and finally verify the performance improvements provided by compensation.

OBJECTS

01 Study of the Bode plot of plant.
02 Study of the Lag Network Design.
03 Study of the Lead Network Design.

FEATURES

01 Simulated 'uncompensated' system having adjustable damping.
02 Compensation network implementation through built-in variable gain amplifier.
03 Built-in square and sine wave generators
04 Built-in DC Power Supply
05 Built in Resistance R1 & R2 and capacitor C for LEAD & LAG network design
06 Built-in uC based frequency counter
07 Functional blocks indicated on-board Mimics
08 Exhaustive Learning Material

TECHNICAL SPECIFICATION

01	Interconnections	: 4mm banana sockets
02	Operating Conditions	: 0-40 °C, 85% RH
03	Power Supply	: 230V ±10%, 50Hz
04	Power Consumption	: 10 VA (approximately)
05	Weight	: 1.5Kg (approx)
06	Dimension	: W 340 x H 125 x D210

LIST OF ACCESSORIES:

01 Patch Cord length 50cm Red 05
02 Patch Cord length 50cm Black.....05

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We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS

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14-07-2022