

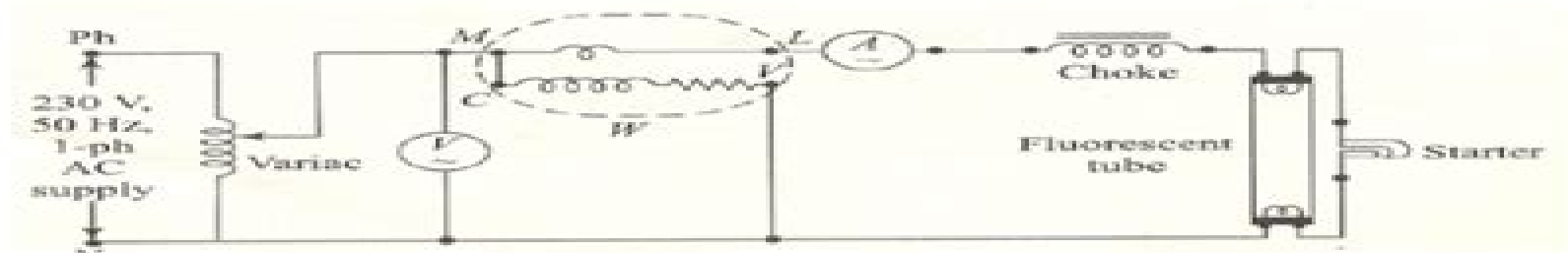
EXPERIMENT NO-1

AIM OF THE EXPERIMENT: Connection and measurement of power consumption of a fluorescent lamp.

APPARATUS REQUIRED:

SL NO	ITEM DESCRIPTION	SPECIFICATION	TYPE	QUANTITY
01	Ammeter	0-2A	MI	1
02	Voltmeter	0-300V	MI	1
03	Wattmeter	230V,5/10A	DM	1
04	Choke	40W,230V	IRON CORE	1
05	Starter	230V,50Hz	GLOW	1
06	Fluorescent Tube	40W,230V,50Hz	-	1
07	Variac	1-PH,0-300V,5A	-	1
08	Connecting Wire	3/20SWG	PVC	LS

CIRCUIT DIAGRAM:



THEORY:

Fluorescent lamp constitutes a glass tube whose inside is coated with a fluorescent powder. When the two filaments of the lamp are maintained at potential difference sufficient enough to produce electric discharge through the gap, then electron are emitted from one electrode and move towards the other electrodes. In the mean time, these electrons collide with the fluorescent coating and emit cool light. In most fluorescent lamp, a mixture of argon and mercury gas contained in a glass tube is stimulated by an electric current, producing ultraviolet ray. These rays strike fluorescent phosphorous coating on the interior surface of the bulb. Unfortunately a fluorescent lamp can't just work as is case of incandescent lamp. The main reason is that it is normally takes a voltage greater than the typical line voltage to start. It requires several hundreds of volts (700-800v). The second problem is that

PROCEDURE:

- Do the connection as per the circuit diagram.
- Keep the variac in the zero position and switch on the power supply.

Electrical Circuits And Machines Practical Lab Manual

Ensheng Dong



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