



# EMCO AVR EE-302

## Features :

- Microcontroller based architecture with A/D converter
- Keyboard entry for parameter settings
- Linear or Inverse Time response
- Two independent timers for first and subsequent pulses
- Single pulse or continuous pulse operation
- Readout of pri. & sec. voltages in V, KV and % Deviation
- Independent Lower & Raise settings in % of Nominal value
- Indication for pre-signals, parameter units & Relay oper.
- Auto / Manual mode of operation
- High speed return action for Overvoltage condition

## Technical Specifications

Auxiliary Supply	: 110/230V AC $\pm$ 15%, 50Hz, 15VA	Control operation	: Control pulse with approx 2 sec. on-time
PT Supply	: 110V AC, 50Hz	Panel Cutout	: 268 x 125 x (HxW) mm
Nominal Setting (NS)	: 85 to 140V in steps of 0.1 V	Overall Dimensions	: 268 x 165 x 340 (HxWxD) mm
Lower Setting (LS)	: +0.5 to +9% of NS in steps of 0.1V	Operating Temp.	: 0°C - 45°C
Raise Setting (RS)	: -0.5 to -9% of NS in steps of 0.1V	Weight	: 5Kgs. (approx.)
Time delay (T1) bet <sup>d</sup> . deviation & 1 <sup>st</sup> pulse	: 10 to 180 sec, Linear or Inverse response	Options	: 1. Line Drop Compensator with resistive and reactive compensation of either polarity upto 20% and suitable for operation with 1A, 5VA Current Transformer
Time delay (T2) bet <sup>d</sup> . consecutive pulse	: 0 to 11 sec, where 0 is continuous operation; 11 – T2 = T1		2. Normally closed Auxiliary Supply Fail Relay contacts
UV Blocking	: 60 to 95% of NS in steps of 0.1%		3. Built-in Tap Position Indicator upto maximum 35 Taps with 1K step resistance
OV detection	: 105 to 130% of NS in steps of 0.1% with high speed return (2 sec ON / 2 sec OFF Control pulse)		4. Overcurrent Blocking @ 150% of Rated Current with a pair of NO contacts
Primary Voltage (KV)	: 0-999.9 KV corresponding to NS in steps of 0.1KV		
Control Fail Delay	: 5 minutes fixed internally		
Loadshedding	: Nominal value reduced in steps of		
Control Relays	: 3%, 6%, or 9% through external switch		
Control Relays	: One pair of NO contacts of rating 5A at 240V AC or 24V DC resistive load for each Lower, Raise, Control Fail, Undervoltage & Overvoltage Relays		

Product specifications are subject to change without notice.

## EMCO ELECTRONICS

(An ISO 9001:2008 Mfg. Co.)



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