



THERMAX CONTROLS

Reliable Monitoring...

AUTOMATIC VOLTAGE REGULATOR

MODEL: TC22



GENERAL DESCRIPTION

Automatic Voltage regulator is made to be as simple to operate as possible when controlling the power transformer's secondary voltage using an OLTC and also used to indicate the TAP position of the power transformer. The Lower and Raise limits can be adjusted to determine the bandwidth.

The control action will only occur if the voltage stays outside the bandwidth after the time delay has passed, and the desired time delay can be selected on the front panel. By doing this, any spurious pulses brought on by transient voltage variations are eliminated. Time delays are started again before making additional tap changes for voltage adjustments that call for multiple tap changes. When the voltage returns within the predetermined bandwidth, the relay is automatically reset.

A lower pulse is given if the PT exceeds the Lower Set value. Likewise, a raise pulse is sent if the PT falls below the Raise Set value. When the voltage drops below the designated undervoltage limit or if the PT fails, the Raise Control Relay immediately stops working. To achieve the tap change during Raise and Lower operations, a single pair of relay contacts that are typically open are supplied.

Technical Specification		Model TC22
Auxiliary Supply	90 - 260V AC/DC, 10VA, 50Hz	
PT Supply	110V AC, 50Hz	
Nominal Setting	85 to 155V	
Lower Set	95 to 125V	
Raise Set	90 to 120V	
Time Delay	0 to 120 seconds	
UV Blocking	Internal blocking at 80V and restoring at 85V	
Control Relay	1 pair of NO potential free contacts of 5A at 240V AC/ 24VDC for LR, RR each	
Operating Temperature	0°C to 45°C	
Overall Dimension	96 x 192 x 80 mm (H x W x D)	