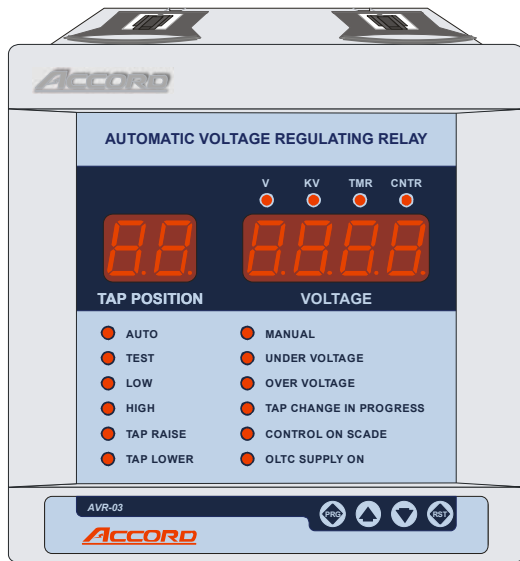


AUTOMATIC VOLTAGE REGULATING RELAY (AVR-03)



FRONT

FEATURES:

- Micro-controller based architecture
- SCADA compatible (MODBUS RTU Protocol)
- Auto / Manual / Remote selection.
- Din Standard Cabinet.
- User friendly features.
- Inbuilt Tap Position Indicator.
- Tropical Design.
- Super bright 7 Segment Display.
- Self Diagnostic Facility.
- Extreme Tap Blocking.

OPTIONAL FEATURES:

- Redundancy of Power Supply.
- Analog O/P for TPI, Voltage.
- Line drop compensation.

GENERAL SPECIFICATIONS:

1	Size	:	144 x 144 MM
2	Mounting	:	Flush
3	Aux Supply	:	85-250V AC/DC.
4	PT Supply	:	110V AC.
5	Nominal Setting (NS)	:	50 to 150V in steps of 1V.
6	Accuracy of PT Voltage	:	1%
7	Lower Setting (LS)	:	+0.5% to 10% .of NS
8	Raise Setting (RS)	:	0.5% to 10 % . of NS
9	Time Delay (T)	:	10 to 180 Sec.
10	Under Voltage Block	:	60 to 95% of NS in steps of 1%.
11	Over Voltage Block	:	105 to 130% of NS in step of 1% .
12	Primary Voltage	:	1.0 to 66.0KV in steps of 1KV.
13	Control Operation	:	Control pulse with approx 3 Sec. on time.
14	TPI Input	:	1K Step resistor chain for maximum of 25 Taps.

DIGITAL INPUTS:

1. Tap Lower
2. Tap Raise
4. Control On SCADA

DIGITAL OUTPUTS :

1. Tap Raise
2. Tap Lower
3. Under Voltage
4. Over Voltage
5. AVR Fail No Contact

Routine Test :

1. 2KV Dielectric as per IS3231
2. Insulation Resistance
3. Heat Run Test