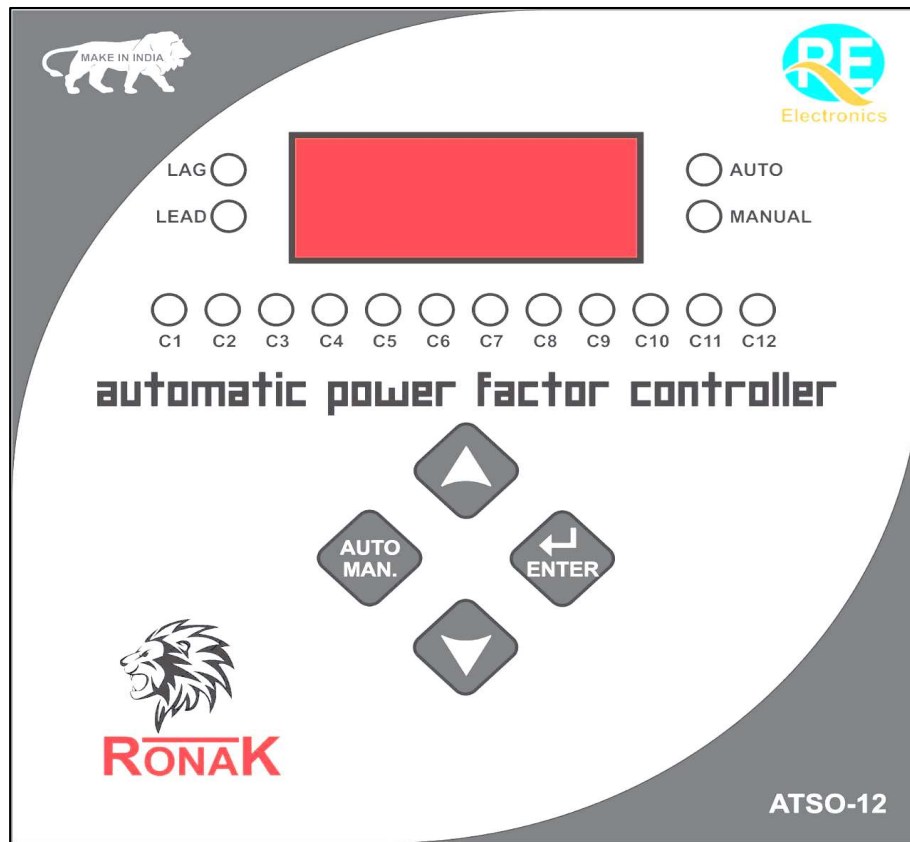


USER MANUAL

AUTOMATIC POWER FACTOR RELAY 'ATSO-06 08 12'



1. TECHNICAL SPECIFICATIONS:

- a. Input Voltage Range: 140 VAC - 270 VAC
- b. Frequency: 45 - 65 Hz
- c. Power Factor Accuracy: +/- 1%
- d. Relay Provision: 6 to 12
- e. Working Temperature : -10°C to 70°C
- f. Two Fuses for Controller Protection
- g. Switches: 1. Auto/Maual Switch: for Auto/Manual Mode Selection
 2. Enter Switch: To Enter in Programming Mode
 3. Up Switch : To Increment in Parameters
 4. Down Switch: To Decrement in Parameters

2. PROGRAMMING PARAMETER SETTING METHOD :

- a. Press & Hold 'ENTER' to Unlock Programming mode.
- b. Press again 'ENTER' to Switch Parameters.
- c. Automatically Goes into the desired Parameter when unhold the enter button.
- d. Set the Desired value with **UP & Down** Switch.
- e. Press 'ENTER' to save set value & move on to next Parameter.

3. PROGRAMMING PARAMETER:

S.no.	Display	Parameter	Explanation of Parameter	Factory Setting	Setting Range
1	Ctp	CT Ratio	Enter Primary CT Ratio	100	01 - 9999
2	StG	Stages	Enter Desired Stage Value:	- 6 for 6 Relay - 8 for 8 Relay - 12 for 12 Relay	1-6 for 6 Relay 1-8 for 8 Relay 1-12 for 12 Relay
3	tPF	Target Power Factor	Enter Desired Power Factor to be Set for Correction	0.98	- 0.70 to 0.70
4	Dbnd	Dead Band	Enter Desired Dead Band	2	1 - 10
5	Dlon	On Time Delay	Contactator ON delay time	4	1 - 60
6	DLoF	Off Time Delay	Contactator OFF delay time	4	1 - 60
7	Curr	Current Sensitivity	Current Sensitivity % of C/T ratio 1 for 0.2%, 2 for 0.6%, 3 for 1%, 4 for 1.5%, 5 for 2%, 6 for 2.5%, 7 for 3%, 8 for 3.5%, 9 for 4%	2	0 - 9
8	PFCr	Power Factor Correction	Power Factor Correction	1	0 - 5

4. IMPORTANT INSTRUCTIONS

- a. Always install Capacitor in Increasing Order as given in Table

Stage	1	2	3	4	5
KVAR	1	2	3	6	8
	1	2	4	8	15

Thanks for Using our APFC Relay ATSO-6,8,12

RONAK ELECTRICAL & ELECTRONICS

Address : Plot No.-10143, Sanjay Colony, Sec-23, Faridabad, Haryana-121005

Mfg.: APFC Relays, Winding Controller, Counter, Timer, Servo Stabilizer & Servo Stabilizer Card

Mob: +91-9810478208

Email: ronakelectrical98@gmail.com