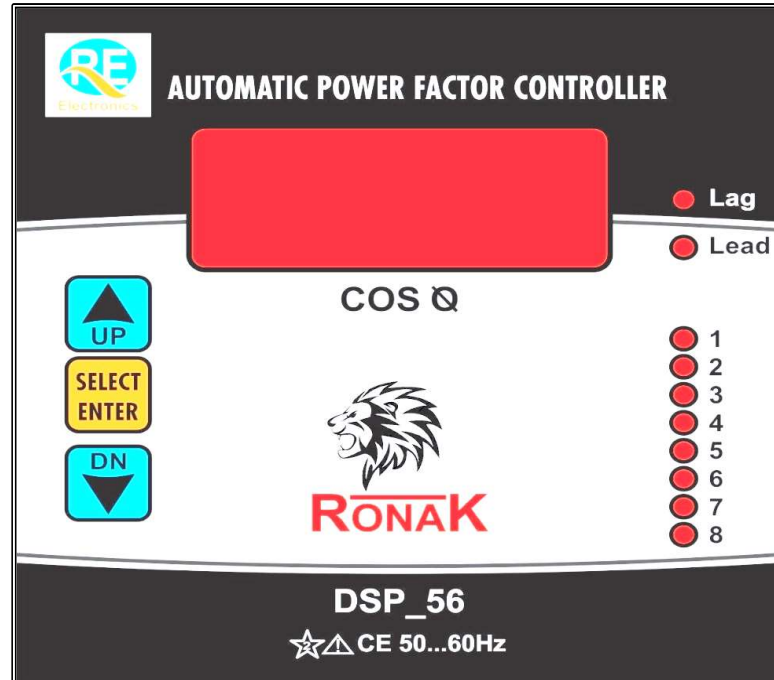


# USER MANUAL

## AUTOMATIC POWER FACTOR CONTROLLER DSP\_56



### 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. Select Enter Switch: To Enter in Programming Mode
  2. Up Switch : To Increment in Parameters
  3. Down Switch: To Decrement in Parameters

## 2. PROGRAMMING PARAMETER SETTING METHOD :

- a. Press & Hold 'ENTER' to Unlock Programming mode.
- b. Press 'UP' & 'DOWN' to Switch Parameters.
- c. Press 'ENTER' to Unlock Desired Parameter.
- 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	1-6 for 6 Relay 1-8 for 8 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	ContactoR ON delay time	4	1 - 60
6	DLoF	Off Time Delay	ContactoR 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

<b>Stage</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>KVAR</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>8</b>
	<b>1</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>15</b>

***Thanks for Using our APFC Relay DSP\_56***

## RONAK ELECTRICAL & ELECTRONICS

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