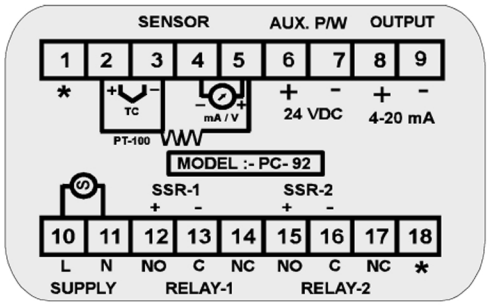
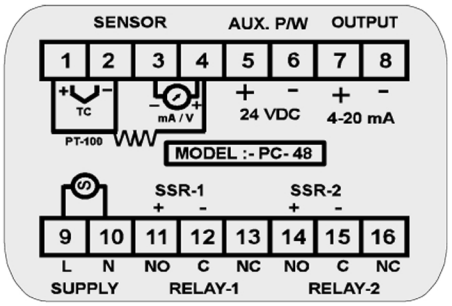
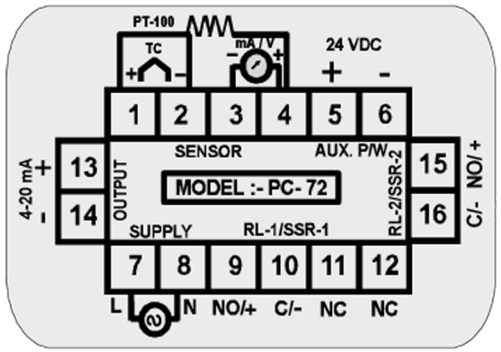
Terminal Connections:



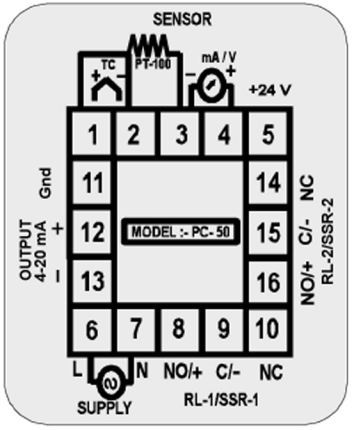
PC-92



PC-48

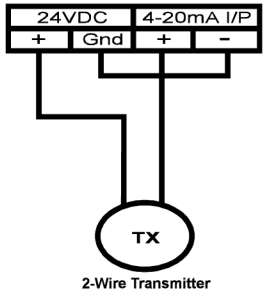


PC-72

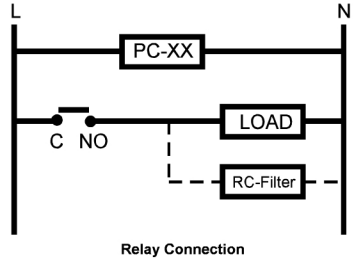


PC-50

Connections with Transmitter & Relay :-



2-Wire Transmitter



Relay Connection

OPERATING MANUAL FOR DIGITAL PROCESS CONTRLLER (MODEL:- PC-XX)

SPECIFICATION:

Model	: PC- Series
Type	: Microcontroller Based Digital Process Controller
Input	: RTD, TC (j,k,r,s), 4-20 ma
Display	: 4-Digit LED 7-segment Display
Range	: -999 to 9999 (Selectable)
Decimal Point	: Selectable(For Analog Input only)
Response	: Less than 100 msec
Linearity	: ± 0.1% of FSD
Accuracy	: ± 0.25% of FSD
Calibration	: By Front Key
Output	: Two Relay contact / Two SSR
Logic	: PID / On-Off
Out 4-20mA	: Retransmission / Control
Aux. Supply	: 24 VDC for Transmitter
Alarm	: By Front panel LED
Power	: 90-270 VAC, 50 HZ
Size	: 48x48x85 (PC-50) 72x72x65 (PC-72) 48x96x65 (PC-48) 96x96x65 (PC-92)
Enclosure	: Industrial Grade ABS
Weight	: Approximately 0.5 Kgs
Operating Temp:	0 to 50°C

Features:

- Micro-controller Based Design.
- Low Cost, high accuracy.
- Strandard analog signals & Temp sensors.
- High accuracy & linearity to input signal.
- 4- Digit seven segment LED display.
- Very low power consumption & heat dissipation
- Fully configurable.
- Selectable control logic.
- Two point calibration.
- Light weight.
- Universal Ac SMPS power supply
- Rugged, Industrial grade ABS enclosure
- High Noise immunity.
- Panel / Field / Hazardous area installation in Ip65 execution.
- Proven record of several thousand installations.

PROGRAMMING:

KEY	DISPLAY	DESCRIPTION
1) USER LIST : For Set point setting		
Press P	St 1	Set point-1
Press ∧ OR ∨	0 100	Set point-1 can be change by up/down key within Low range & High range Limit.
Press P	St2	Set point-2
Press ∧ OR ∨	0 100	Set point-2 can be change by up/down key within Low range & High range Limit.
Press P	0028	After finishing all set point Press "P" to show the PV (Process Value).
2) CONFIGURATION LIST : For Sensor selection, Range selection, Relay Logic & control Logic.		
Press ∧ + ∨ (For 3 Sec.)	U-St	User set Mode.
	SEn	Sensor selection
Press ∧ OR ∨	rtd.1	Select Sensor by UP/DOWN Key (rtd.1, rtd1, j, k, r, S, AnGL)
Press P	dP	Decimal Point Selection
Press ∧ OR ∨	1000	Select Decimal Point by UP/DOWN Key
Press P	I PC	IPC is a Input Correction (Offset Adjustment)
Press ∧ OR ∨	0000	Adjust The IPC by UP/DOWN Key between the Low range & High range.
Press P	LoC	LoC is Lock (Applicable only for PID Controller)
Press ∧ OR ∨	nO	Lock will be set to nO/YES to cock the Tunning (Applicable only for PID Controller)
Press P	rn9L	Low Scale/Range value
Press ∧ OR ∨	-999	Low Scale/Range value selectable only for analog input signal (-999 to 9998)
Press P	rn9H	High Scale/Range value
Press ∧ OR ∨	9999	High Scale/Range value selectable only for analog input signal (-998 to 9999)
Press P	C-OP	C-OP is a Current Output selection(4-20mA).
Press ∧ OR ∨	tEmP	tEmP is for Retransmission(Linear Output).
Press ∧ OR ∨	Cntr	Cntr is for Control Output (Action depend on PID)
Press P	rL- 1	rL-1 is Relay action.
Press ∧ OR ∨	HEt	Relay action is select by UP/DOWN key. (Het, Cool, Hi, Lo, H-AI,L-AI)

PROGRAMMING:

KEY	DISPLAY	DESCRIPTION
Press P	HY 1	Hysterisis for relay-1
Press ∧ OR ∨	0000	Hysterisis select by UP/DOWN key within the Low Range & High Range.
Press P	dL 1	Delay appered only for On/Off action. (Only For Relay-1)
Press ∧ OR ∨	0000	Delay can be select by UP/DOWN key (0 To 254 Sec.)
Press P	rL-2	rL21 is Relay action.
Press ∧ OR ∨	HEt	Relay action is select by UP/DOWN key. (Het, Cool, Hi, Lo, H-AI,L-AI)
Press P	HY2	Hysterisis for relay-2
Press ∧ OR ∨	0000	Hysterisis select by UP/DOWN key within the Low Range & High Range.
Press P	0028	After finishing all User setting Press "P" to show the PV (Process Value).
3) Retransmission List : For Retransmission Setting (4-20mA)		
Press P + Power On (Press "P" Then Power)	2Er0	Zero is for 4 mA adjustment
Press ∧ OR ∨	0 150	Adjust the 4 mA (Measured At Terminal) current by UP/Down Key
Press P	SPAn	Zero is for 20 mA adjustment
Press ∧ OR ∨	0550	Adjust the 20 mA (Measured At Terminal) current by UP/Down Key
Wait For 20 Sec.	0028	After finishing Retransmission setting Wait For 20 Sec. (Until Exit From Program Mode)

✱ Display Messages:

I PLO	INPUT LOW:- Input Signal Below Lower Range.
I PHI	INPUT HIGH:- Input Signal Above Higher Range.
OPEn	INPUT OPEN:- Input Signal Breaks OR Sensor Open.
tUnE	Auto Tunning:- Instrument is Under Auto Tune Mode. (Only For PID Action)

Manufacturer & Marketed by:

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