



ASTER
INSTRUMENTS

Universal Process Controller APC-1000 / APC-2000 / APC-3000 / APC-4000 / APC-5000 & FLP Series



96 x 96 x 50



48 x 96 x 110



72 x 72 x 110



48 x 48 x 85



- ✓ Universal Temperature Input
- ✓ Jumper less Input Selection
- ✓ Microprocessor based Design
- ✓ Potential Free Relay Contact
- ✓ Output up to 1,2,3 Nos
- ✓ Isolated 0/4-20 mA or 0-10 V
- ✓ Process Value Retransmission
- ✓ Output
- ✓ 0.1 % Accuracy of FSD
- ✓ Transmitter Loop Power Supply with Current Limit as per standard

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- Transmitter Loop Power Supply
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- Potential Free Relay Contact
- Microprocessor based Design
- Jumper less input selection

TECHNICAL SPECIFICATION :-

INPUT :

TYPE	RANGE
1) RTD –PT 100	-99 TO 400 'C
2) RTD.1 –PT 100	-99.9 TO 400.0 'C
3) J T/C	0 TO 750 'C
4) K T/C	0 TO 1200 'C
5) R T/C	0 TO 1750 'C
6) S T/C	0 TO 1750 'C
7) 4-20mA	- 999 to 9999
8) 0-10 VDC	- 999 to 9999
9) PT – 1000	-99.9 TO 400.0 'C

ACCURACY :

0.25 % ON FSD for RTD AND T/C

+/- 0.1 % of span for linear (4-20mA / 0-10V)

LED STATUS INDICATION :

LEDS FOR HIGH AND LOW ALARM

CONTROL ACTION :

PID / TIME-PROPOTIONAL / HEATING / COOLING/ ALARM (SELECTABLE through Front Keypad)

OUTPUT :

OUTPUT-1 : RELAY / SSR / Control Output(4-20 mA / 0-10 V)

OUTPUT-2 : RELAY / SSR

OUTPUT-3 : RELAY / SSR

OUTPUT-4 : 4-20 mA (Retransmission) / 0-10 VDC

(OPTIONAL:- Can be selected by User)

RELAY OUTPUT:	NO - C - NC Contacts , 5A @240 V AC RESISTIVE
	1 / 2 / 3 Relays / SSR
SSR OUTPUT:	12 VDC @ 20 mA
Retransmission Current & Voltage O/P	4-20 mA / 0-10 V, Fully 3 Port Isolated 1.5KV

COMMUNICATION :

RS-485 MODBUS (OPTIONAL)

TRANSMITTER

24 V DC @ 30 mA max, isolated from INPUT & OUTPUT

POWER SUPPLY

POWER

- 1) 90-300 VAC/VDC SMPS
- 2) 24VDC (OPTIONAL)

MODEL CODE, MODEL SIZE & DISPLAY SIZE

- APC - 1000 - 48 X 48 (PV - 0.39" & SV - 0.34")
- APC - 2000 - 48 X 96 (PV - 0.39" & SV - 0.34")
- APC - 3000 - 72 X 72 (PV - 0.56" & SV - 0.39")
- APC - 4000 - 96 X 48 (PV - 0.80" & SV - NA)
- APC - 5000 - 96 X 96 (PV - 0.56" & SV - 0.39")
- APC - 9000 - FLAME PROOF (PV - 0.56" & SV - 0.39")

ORDERING CODE :



INPUT TYPE :

TYPE	RANGE
0) Universal Input (Below All)	
1) RTD -PT 100	-99 TO 400 °C
2) RTD.1 -PT 100	-99.9 TO 400.0 °C
3) J T/C	0 TO 750 °C
4) K T/C	0 TO 1200 °C
5) R T/C	0 TO 1750 °C
6) S T/C	0 TO 1750 °C
7) 4-20mA	- 999 to 9999
8) 0-10 VDC	- 999 to 9999
9) PT - 1000	-99.9 TO 400.0 °C

OUTPUT - 1 :

NO OUTPUT	0
RELAY	1
SSR	2

OUTPUT - 2 :

NO OUTPUT	0
RELAY	1
SSR	2

OUTPUT - 3 :

NO OUTPUT	0
RELAY	1
SSR	2

POWER SUPPLY :

0	85-275 VAC
1	24 VDC

TRANSMITTER POWER SUPPLY

0	NOT APPLICABLE
1	24V DC(30 mA) Isolated

COMMUNICATION (OPTIONAL):

0	NOT APPLICABLE
1	RS-485 (MODBUS)

RETRANSMISSION/ C-OP (OPTIONAL):

0	NOT APPLICABLE
1	4 - 20 mA (Isolated)
2	0 - 10 VDC (Isolated)



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