



ASTER
INSTRUMENTS

Jumbo Display Universal Process Indicator / Controller APC-8000 Series



- ✓ 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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- Potential Free Relay Contact
- Microprocessor based Design
- Jumper less Input Selection

TECHNICAL SPECIFICATION :-

INPUT :

DIGITAL INPUT SENSOR :

ACCURACY :

CONTROL ACTION :

OUTPUT :

COMMUNICATION :

TPS

POWER

TYPE	RANGE
01) RTD –PT 100	-99 TO 400 'C
02) RTD.1 –PT 100	-99.9 TO 400.0 'C
03) J T/C	0 TO 750 'C
04) K T/C	0 TO 1200 'C
05) R T/C	0 TO 1750 'C
06) S T/C	0 TO 1750 'C
07) 4-20mA	- 999 to 9999
08) 0-10 VDC	- 999 to 9999
09) PT – 1000	-99.9 TO 400.0 'C
10) Humidity Sensor	0.0 to 100.0 % RH
11) Humidity + Temperature	
11) DIGITAL INPUT	RPM
12) DIGITAL INPUT	MPM
13) DIGITAL INPUT	COUNTER
14) DIGITAL INPUT	TIMER
15) DIGITAL INPUT	TIME TOTALIZER
16) DIGITAL INPUT	LENGH COUNTER
17) SPECIAL ON DEMOAND*	

NPN / PNP Proximity Sensor / Micro switch / Encoder

0.25 % ON FSD for RTD AND T/C

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

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

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

RS-485 MODBUS (OPTIONAL)

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

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

ORDERING CODE :

APC - 8000

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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 (OPTIONAL):

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



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