Limit Alarms (potentiometer adj.) A-UNIT

PT ALARM

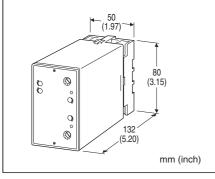
(Average sensing, RMS calibrated)

Functions & Features

- \bullet Providing SPDT relay outputs at preset AC voltage levels from a VT
- · Average sensing
- Dual (Hi/Lo) trip
- Energized or de-energized coil at a tripped condition selectable
- Hysteresis (deadband) adjustable
- Enclosed relays
- Relays can be powered 110 V DC
- High-density mounting

Typical Applications

- Annunciator
- · Various alarm applications



MODEL: APTA-[1]1[2][3]-[4]

ORDERING INFORMATION

• Code number: APTA-[1]1[2][3]-[4] Specify a code from below for each [1] through [4]. (e.g. APTA-1111-B)

[1] INPUT

Voltage

1: 0 - 110 V AC

2: 0 - 220 V AC

5: 0 - 150 V AC

6: 0 - 300 V AC

[3] SETPOINT 2 OUTPUT

1: Hi (coil energized at alarm)

2: Hi (coil de-energized at alarm)

3: Lo (coil energized at alarm)

4: Lo (coil de-energized at alarm)

[4] POWER INPUT

AC Power

B: 100 V AC

C: 110 V AC

D: 115 V AC

F: 120 V AC

G: 200 V AC

H: 220 V AC

J: 240 V AC

DC Power

S: 12 V DC

R: 24 V DC

V: 48 V DC

P: 110 V DC

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals

Housing material: Flame-resistant resin (black) **Isolation**: Input to output 1 to output 2 to power

Input waveform: Sine wave

Zero adjustment: -5 to +5 % (front) **Span adjustment**: 95 to 105 % (front)

Setpoint adjustments: 270°-turn screwdriver adjustments

(front); 0 - 100 % independently

Hysteresis (deadband) adjustments: 1 – 100 % (front) **Front LEDs**: Lights turn on at a tripped condition; red for

output 1, green for output 2

Power ON timer: Relays de-energized for approx. 2 seconds

after power is turned on.

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 0.5 VA max.

Overload capacity: 200 % of rating for 1 minute, 120 %

continuous

Operational range: 0 - 100 % of rating

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[2] SETPOINT 1 OUTPUT

1: Hi (coil energized at alarm)

2: Hi (coil de-energized at alarm)

3: Lo (coil energized at alarm)

4: Lo (coil de-energized at alarm)



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OUTPUT SPECIFICATIONS

■ Relay Contact: 100 V AC @ 1 A (cos ø = 1)

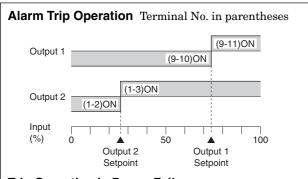
120 V AC @ 1 A (cos \emptyset = 1) 240 V AC @ 0.5 A (cos \emptyset = 1) 30 V DC @ 1 A (resistive load)

Maximum switching voltage: 380 V AC or 125 V DC Maximum switching power: 120 VA or 30 W

Minimum load: 5 V DC @ 10 mA Mechanical life: 5 x 10⁷ cycles

For maximum relay life with inductive loads, external

protection is recommended.



Trip Operation in Power Failure

•Output Code: 1 & 4: Terminals 1 - 2, 9 - 10 turn ON

•Output Code: 2 & 3: Terminals 1 - 3, 9 - 11 turn ON

INSTALLATION

Power input

•AC: Operational voltage range: rating ±10 %,

50/60 ±2 Hz, approx. 2 VA

•DC: Operational voltage range: rating ±10 %, or 85 - 150 V

for 110 V rating (ripple 10 % p-p max.)

Approx. 2 W (80 mA at 24 V)

Operating temperature: -5 to +60°C (23 to 140°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface or DIN rail **Weight**: 450 g (0.99 lbs)

PERFORMANCE in percentage of span

Trip point repeatability: ±0.5 %

Temp. coefficient: ± 0.05 %/°C (± 0.03 %/°F)

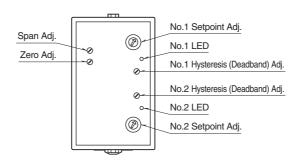
Response time: ≤ 0.5 sec. (0 - 100 % at 90 % setpoint)

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC

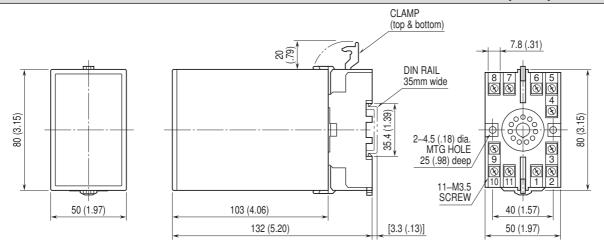
Dielectric strength: 2000 V AC @1 minute (input to output 1

to output 2 to power to ground)

EXTERNAL VIEW

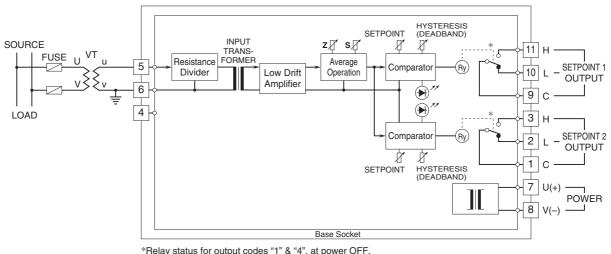


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

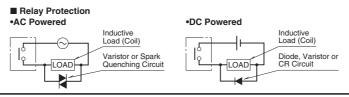


· When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*Relay status for output codes "1" & "4", at power OFF.





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Specifications are subject to change without notice.