

# Altech Corp.®

*Serving the Automation & Control Industry since 1984*



**Mechanical  
Thermostat**



**Panel Light**



**Panel Filters**



## Altech Panel Accessories



# LED Panel Light APL-Series

- Energy efficient LED technology
- Long life
- Magnet or Screw mounting
- Daisy chain (up to 10 lights)
- Maintenance-free
- On/off switch or motion sensor
- Wide Voltage Range (AC or DC)
- Integrated power unit



## Technical Details

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Power Consumption       | Max. 5W                                                                   |
| Luminosity              | 290Lm at 120° / 870Lm at 360° (equals 75W light bulb)                     |
| LED Type                | Angle of radiation 120°, light color: daylight, color temperature: 8,500k |
| Life Expectancy         | 60,000h at 68°F (20°C)                                                    |
| Connection              | 2-pole connector with snap lock                                           |
| AC                      | Max. 2.5A / 240VAC, color: white connector                                |
| DC                      | Max. 2.5A / 60VDC, color: blue connector                                  |
| Housing                 | Plastic, transparent                                                      |
| Operating Temperature   | -22° to 140°F (-30°C to 60°C)                                             |
| Operating Humidity      | Max. 80% RH (non-condensing)                                              |
| Protection Type / Class | IP20                                                                      |

## Attachment Method-Magnet

| Part No.     | Operating Voltage                                | Switch Type   | Weight       |
|--------------|--------------------------------------------------|---------------|--------------|
| APL-M120ACLS | 100-240VAC, 50/60Hz<br>(min. 90VAC, max. 265VAC) | on/off switch | 7oz (.44lbs) |
| APL-M24DCLS  | 24-48VDC<br>(min. 20VDC, max. 60VDC)             | on/off switch | 7oz (.44lbs) |
| APL-M120ACMS | 100-240VAC, 50/60Hz<br>(min. 90VAC, max. 265VAC) | motion sensor | 7oz (.44lbs) |
| APL-M24DCMS  | 24-48VDC<br>(min. 20VDC, max. 60VDC)             | motion sensor | 7oz (.44lbs) |

## Attachment Method-Screw

| Part No.     | Operating Voltage                                | Switch Type   | Weight       |
|--------------|--------------------------------------------------|---------------|--------------|
| APL-S120ACLS | 100-240VAC, 50/60Hz<br>(min. 90VAC, max. 265VAC) | on/off switch | 7oz (.44lbs) |
| APL-S24DCLS  | 24-48VDC<br>(min. 20VDC, max. 60VDC)             | on/off switch | 7oz (.44lbs) |
| APL-S120ACMS | 100-240VAC, 50/60Hz<br>(min. 90VAC, max. 265VAC) | motion sensor | 7oz (.44lbs) |
| APL-S24DCMS  | 24-48VDC<br>(min. 20VDC, max. 60VDC)             | motion sensor | 7oz (.44lbs) |



# Panel Filters



- Mounts Quickly and Easily - no mounting hardware required
- Low external Profile
- UV & Heat resisting Housing material
- Black or Grey Housing Color
- Filtering Class: G3 according to EN779
- Filtration Efficiency: 85% (DIN24185)
- Filter Mat included



## Exhaust Grills

| Part No.<br>Grey (RAL7035) | Part No.<br>Black (RAL9005) | Dust Retention<br>Capacity | Cutout<br>Dimensions | Outer<br>Dimensions |
|----------------------------|-----------------------------|----------------------------|----------------------|---------------------|
| AEG-1000G                  | AEG-1000B                   | 1.96oz/ft <sup>2</sup>     | 3.62"x3.62"          | 4.2"x4.2"x0.9"      |
| AEG-2000G                  | AEG-2000B                   | 1.96oz/ft <sup>2</sup>     | 4.92"x4.92"          | 5.9"x5.9"x1.1"      |
| AEG-3000G                  | AEG-3000B                   | 1.96oz/ft <sup>2</sup>     | 6.97"x6.97"          | 8.0"x8.0"x1.2"      |
| AEG-4000G                  | AEG-4000B                   | 1.96oz/ft <sup>2</sup>     | 8.78"x8.78"          | 9.8"x9.8"x1.3"      |
| AEG-5000G                  | AEG-5000B                   | 1.96oz/ft <sup>2</sup>     | 11.46"x11.46"        | 12.8"x12.8"x1.3"    |

## Filter Fans | 115VAC\*

| Part No.<br>Grey (RAL7035) | Part No.<br>Black (RAL7035) | Rated<br>Voltage | Rated Current<br>@ 50/60Hz | Power Usage<br>@ 50/ 60Hz | Max.<br>Airflow | Fan<br>Noise | Static<br>Pressure     | Cutout<br>Dimensions |
|----------------------------|-----------------------------|------------------|----------------------------|---------------------------|-----------------|--------------|------------------------|----------------------|
| AFF-1010G-120VAC           | AFF-1010B-120VAC            | 115VAC           | 0.11/ 0.09A                | 9/ 7W                     | 7/ 9CFM         | 33dB(A)      | 0.13inH <sub>2</sub> O | 3.62"x3.62"          |
| AFF-1020G-120VAC           | AFF-1020B-120VAC            | 115VAC           | 0.15/ 0.13A                | 12/ 10W                   | 13/ 15CFM       | 42dB(A)      | 0.23inH <sub>2</sub> O | 3.62"x3.62"          |
| AFF-2010G-120VAC           | AFF-2010B-120VAC            | 115VAC           | 0.20/ 0.18A                | 16/ 15W                   | 26/ 29CFM       | 49dB(A)      | 0.33inH <sub>2</sub> O | 4.92"x4.92"          |
| AFF-2020G-120VAC           | AFF-2020B-120VAC            | 115VAC           | 0.25/ 0.22A                | 19/ 17W                   | 39/ 46CFM       | 44dB(A)      | 0.35inH <sub>2</sub> O | 4.92"x4.92"          |
| AFF-3010G-120VAC           | AFF-3010B-120VAC            | 115VAC           | 0.21/ 0.20A                | 19/ 18W                   | 59/ 65CFM       | 49dB(A)      | 0.24inH <sub>2</sub> O | 6.97"x6.97"          |
| AFF-3020G-120VAC           | AFF-3020B-120VAC            | 115VAC           | 0.20/ 0.18A                | 16/ 15W                   | 65/ 76CFM       | 44dB(A)      | 0.40inH <sub>2</sub> O | 6.97"x6.97"          |
| AFF-4010G-120VAC           | AFF-4010B-120VAC            | 115VAC           | 0.21/ 0.21A                | 17/ 16W                   | 62/ 70CFM       | 49dB(A)      | 0.23inH <sub>2</sub> O | 8.78"x8.78"          |
| AFF-4020G-120VAC           | AFF-4020B-120VAC            | 115VAC           | 0.28/ 0.26A                | 31/ 26W                   | 133/ 169CFM     | 55dB(A)      | 0.84inH <sub>2</sub> O | 8.78"x8.78"          |
| AFF-5010G-120VAC           | AFF-5010B-120VAC            | 115VAC           | 0.68/ 0.73A                | 74/ 83W                   | 306/ 359CFM     | 69dB(A)      | 0.78inH <sub>2</sub> O | 11.46"x11.46"        |

\* 230VAC version available, please contact Altech for availability

## Filter Fans | 24VDC

| Part No.<br>Grey (RAL7035) | Part No.<br>Black (RAL7035) | Rated<br>Voltage | Rated<br>Current | Power<br>Usage | Max.<br>Airflow | Fan<br>Noise | Static<br>Pressure     | Cutout<br>Dimensions |
|----------------------------|-----------------------------|------------------|------------------|----------------|-----------------|--------------|------------------------|----------------------|
| AFF-1010G-24VDC            | AFF-1010B-24VDC             | 24VAC            | 0.09A            | 2W             | 9CFM            | 30dB(A)      | 0.11inH <sub>2</sub> O | 3.62"x3.62"          |
| AFF-1020G-24VDC            | AFF-1020B-24VDC             | 24VAC            | 0.61A            | 15W            | 29CFM           | 59dB(A)      | 0.64inH <sub>2</sub> O | 3.62"x3.62"          |
| AFF-2010G-24VDC            | AFF-2010B-24VDC             | 24VAC            | 0.31A            | 7W             | 27CFM           | 42dB(A)      | 0.23inH <sub>2</sub> O | 4.92"x4.92"          |
| AFF-3010G-24VDC            | AFF-3010B-24VDC             | 24VAC            | 0.34A            | 8W             | 60CFM           | 42dB(A)      | 0.24inH <sub>2</sub> O | 6.97"x6.97"          |
| AFF-4010G-24VDC            | AFF-4010B-24VDC             | 24VAC            | 0.32A            | 8W             | 82CFM           | 42dB(A)      | 0.25inH <sub>2</sub> O | 6.97"x6.97"          |
| AFF-4020G-24VDC            | AFF-4020B-24VDC             | 24VAC            | 0.71A            | 17W            | 132CFM          | 58dB(A)      | 0.26inH <sub>2</sub> O | 8.78"x8.78"          |



# Mechanical Thermostats

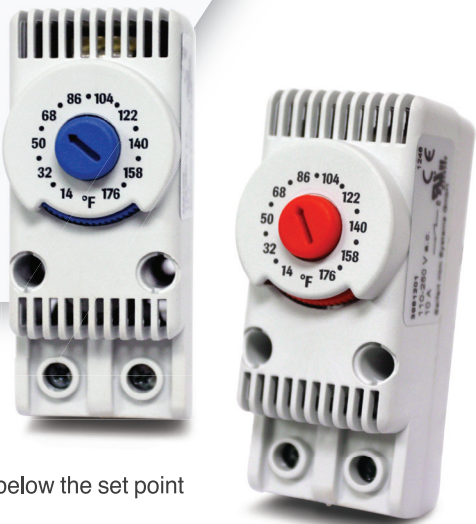
The APT Altech Mechanical Panel Thermostats are designed to control the air temperature inside of enclosures and control panels. They can be used for enclosure heaters, cooling equipment (e.g. filter fans), or signal devices.



- Adjustable Temperature Control
- Wide Adjustment Range
- Color Coded Dial (Red: Heating, Blue: Cooling)
- DIN Rail Mountable

The Heating version (red dial, NC) has closed contacts when the temperature is below the set point value and opens with rising temperature.

The Cooling version (blue dial, NO) has open contacts when the temperature is below the set point value and closes with rising temperature.

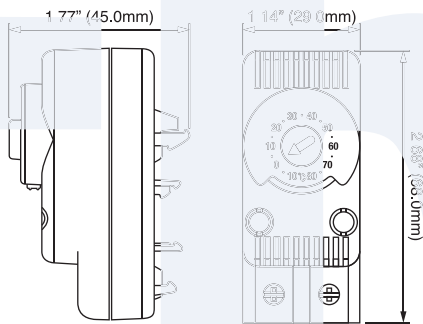


## Technical Details

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| Rated Voltage               | 110 - 250 VAC                                                     |
| Rated Current               | 10A                                                               |
| Max. Rated Current          | 15A                                                               |
| Hysteresis                  | +/-3K                                                             |
| Differential                | -3°K NC version / +4°K NO version up to 5A / +7°K NC version > 5A |
| Lifetime                    | > 100,000 cycles                                                  |
| Terminal Size Acceptability | 23 - 13 AWG (0.75 - 2.5mm²)                                       |
| Protection Level            | IP20                                                              |
| Enclosure Material          | PA66, UL94V-0                                                     |
| Weight                      | 1.9oz. (54g)                                                      |

## Mechanical Thermostats

| Part No. | Function | Contact | Temperature Scale | Setting Range |
|----------|----------|---------|-------------------|---------------|
| APT-HNCF | Heating  | NC      | Fahrenheit        | 14 - 176°F    |
| APT-CNOF | Cooling  | NO      | Fahrenheit        | 14 - 176°F    |
| APT-HNCC | Heating  | NC      | Celsius           | -10 - 80°C    |
| APT-CNOC | Cooling  | NO      | Celsius           | -10 - 80°C    |



Thermostat Dimensions

# Lighting Accessories

## Power cable with female connector



| Part No. | Length  | Volt. Type | Color                             |
|----------|---------|------------|-----------------------------------|
| APL-PCAC | 6.5 ft. | AC         | Connector: white;<br>Cable: white |
| APL-PCDC | 6.5 ft. | DC         | Connector: blue;<br>Cable: white  |

## Extension cable with 2 connectors for daisy chain



| Part No. | Length  | Volt. Type | Color                             |
|----------|---------|------------|-----------------------------------|
| APL-ECAC | 3.3 ft. | AC         | Connector: white;<br>Cable: white |
| APL-ECDC | 3.3 ft. | DC         | Connector: blue;<br>Cable: white  |

## Female / Male Connectors



| Part No. | Connector Type | Volt. Type | Color |
|----------|----------------|------------|-------|
| APL-FAC  | Female         | AC         | White |
| APL-MAC  | Male           | AC         | White |
| APL-FDC  | Female         | DC         | Blue  |
| APL-MDC  | Male           | DC         | Blue  |

## Door Limit Switch



APL-SL



APL-DS

| Part No. | Contact                           | Voltage Rating |
|----------|-----------------------------------|----------------|
| APL-DS   | NO / NC                           | 24-250 VAC/DC  |
| APL-SL   | Slide limit switch (Bar mounting) |                |

# Filter Fan Accessories

## Replacement Filter Mats



- Made of washable non-woven synthetic fibers
- Can be cleaned up to 10 times by washing or blowing dry
- Black or Grey Housing Color
- NEMA 12 or NEMA 3R Filter Class available
- Sold in kits of 6pcs

| Part No. | Filter Rating | Used with Filter Fan | Used with Exhaust Grill | Dimensions  |
|----------|---------------|----------------------|-------------------------|-------------|
| AFM-1012 | NEMA12        | AFF-10xx             | AEG-1000                | 3.3"x3.3"   |
| AFM-2012 | NEMA12        | AFF-20xx             | AEG-2000                | 4.6"x4.6"   |
| AFM-3012 | NEMA12        | AFF-30xx             | AEG-3000                | 6.6"x6.6"   |
| AFM-4012 | NEMA12        | AFF-40xx             | AEG-4000                | 8.5"x8.5"   |
| AFM-5012 | NEMA12        | AFF-50xx             | AEG-5000                | 11.1"x11.1" |

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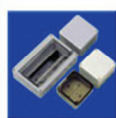
Foot  
Switches

### Sensors



Inductive  
Proximity  
Sensors

### Enclosures

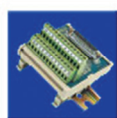


Industrial  
Enclosures



DIN  
Enclosures

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Modules



Safety  
Relays



Slimline  
Relays

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Power  
Supplies

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22 & 30 mm  
Push Buttons

### DIN Rail



DIN Rail

### Wire & Cable Management



Liquid Tight  
Strain Reliefs/  
Corrugated  
Tubes



Wire  
Duct

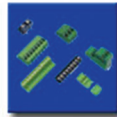
### Terminal Blocks



Din Rail  
Terminal  
Blocks



Panel Mount  
Terminal  
Blocks



Printed Circuit  
Board Terminal  
Blocks



Eurostrips®



Distribution  
Blocks

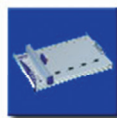
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## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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