



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Altech Corp.®

Serving the Automation & Control Industry since 1984



Mechanical  
Thermostat



Panel Lights



Panel Filters

## Altech Panel Accessories



# LED Panel Light APL-Series

- Energy efficient LED technology
- Long life
- Universal Supply Voltage 24-265V AC/DC
- Universal Mounting (magnet or screws)
- Daisy chain
- Maintenance-free
- On/off switch or motion sensor



## Technical Details

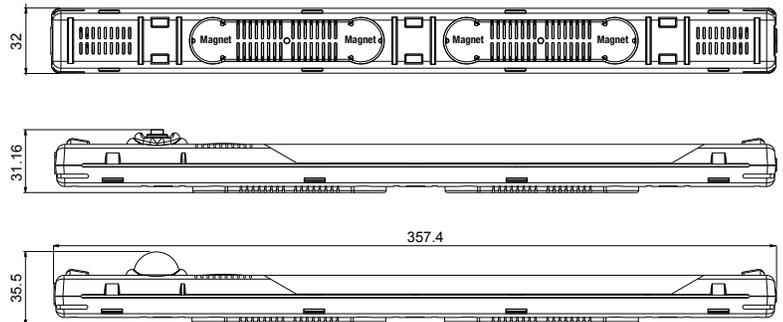
|                         |  |
|-------------------------|--|
| Supply Voltage          | 24-265V AC/DC, 50/60Hz   |
| Power Consumption       | 4W   |
| Luminosity              | 290Lm at 120° 870Lm at 360° (equals 75W light bulb)                      |
| LED Type                | Angle of radiation 120°, light color: daylight, color temperature: 6500k |
| Life Expectancy         | 40,000h at 68°F (20°C)   |
| Connection              | Wieland Connector  |
| Housing                 | PC clear (TOP), PC ABS blue (base)                                       |
| Operating Temperature   | -22° to 140°F (-30°C to 60°C)  |
| Protection Type / Class | IP20   |



## Panel Lights

| Part No.     | Operating Voltage | Switch Type   | Weight         |
|--------------|-------------------|---------------|----------------|
| APL-M24-265V | 24-265V AC/DC     | motion switch | 140g (0.3lbs.) |
| APL-S24-265V | 24-265V AC/DC     | manual switch | 140g (0.3lbs.) |

## Drawings



## Power cable with female connector



| Part No. | Length | Color       |
|----------|--------|-------------|
| APL-PCW  | 3 m    | white cable |

## Female / Male Connectors



| Part No. | Connector Type | Color |
|----------|----------------|-------|
| APL-CF   | Female         | White |
| APL-CM   | Male           | White |

## Extension cable with 2 connectors for daisy chain



| Part No.    | Length | Color |
|-------------|--------|-------|
| APL-ECW0.5  | 0.5 m  | white |
| APL-ECCW1.0 | 1.0 m  | white |



# 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"          |

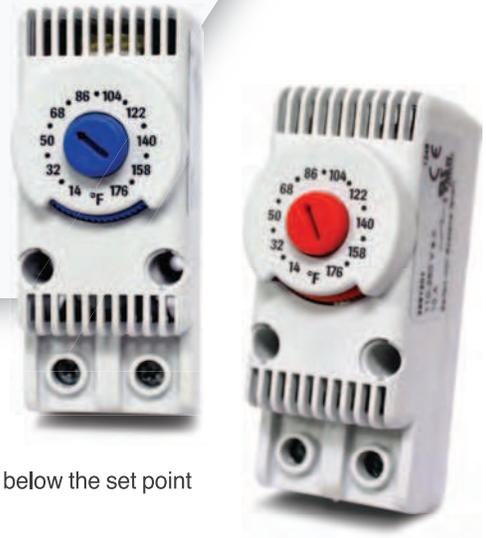


# Mechanical Thermostats

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.

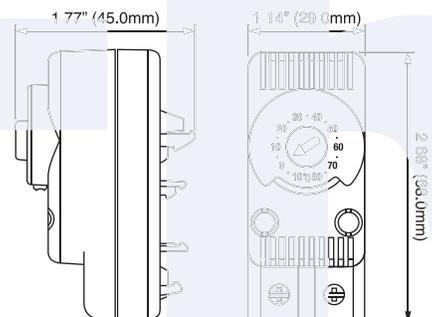
The **Cooling version** (blue dial, NO) has open contacts when the temperature is below the set point value and closes with rising temperature.

## 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 - 2.5mm <sup>2</sup> )                          |
| 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



| 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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- Circuit Protection / Control
- Connectors
- Enclosures
- European Spare Parts
- Digital Panel Meters
- Foot Switches
- Interface Modules
- Power Supplies
- Power Semi-Conductors
- Programmable Controllers
- Push Buttons & Pilot Lights
- Relays
- Sensors
- Terminal Blocks
- Tower Lights
- Timers
- Wire & Cable Management
- Home

### New Products and Promotions

**Serving the Automation & Control Industry  
Since 1984**

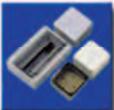
#### Circuit Protection

|  |   |  |   |  |
|--|---|--|---|--|
|  Circuit Protection Devices |  Busbar and Power Distribution |  Contactors, Overload Relays, Manual Motor Starters |  Motor Disconnect Switches |  European Fuses |
|--|---|--|---|--|

#### Connectors

|   |  |   |   |   |
|---|--|---|---|---|
|  Industrial Rectangular Connectors |  Pin & Sleeve Devices |  Receptacles |  Foot Switches |  Inductive Proximity Sensors |
|---|--|---|---|---|

#### Enclosures

|   |  |   |   |   |
|---|--|---|---|---|
|  Industrial Enclosures |  DIN Enclosures |  Interface Modules |  Safety Relays |  Slimline Relays |
|---|--|---|---|---|

#### Modules & Relays

#### Power Supplies

|  |   |  |  |   |
|--|---|--|--|---|
|  Power Supplies |  22 & 30 mm Push Buttons |  DIN Rail |  Liquid Tight Strain Reliefs/Corrugated Tubes |  Wire Duct |
|--|---|--|--|---|

#### Push Buttons

#### DIN Rail

#### Wire & Cable Management

#### Terminal Blocks

|  |   |   |   |   |
|--|---|---|---|---|
|  Din Rail Terminal Blocks |  Panel Mount Terminal Blocks |  Printed Circuit Board Terminal Blocks |  Eurostrips® |  Distribution Blocks |
|--|---|---|---|---|

#### Miscellaneous

|  |   |   |  |  |
|--|---|---|--|--|
|  Ferrules |  Custom Assembly |  Marking & Engraving Systems |  Altech Smart Relay |  Tower Lights |
|--|---|---|--|--|

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