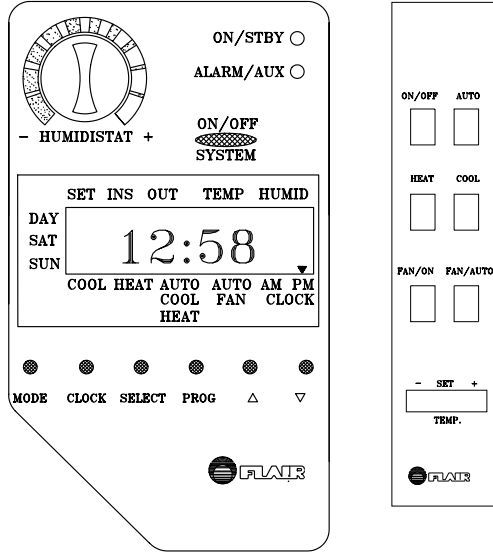


# HUMIDISTAT THERMOSTAT series TQ61

For central (main) or zoned control of heating and cooling systems with temperature and humidification control in one unit.

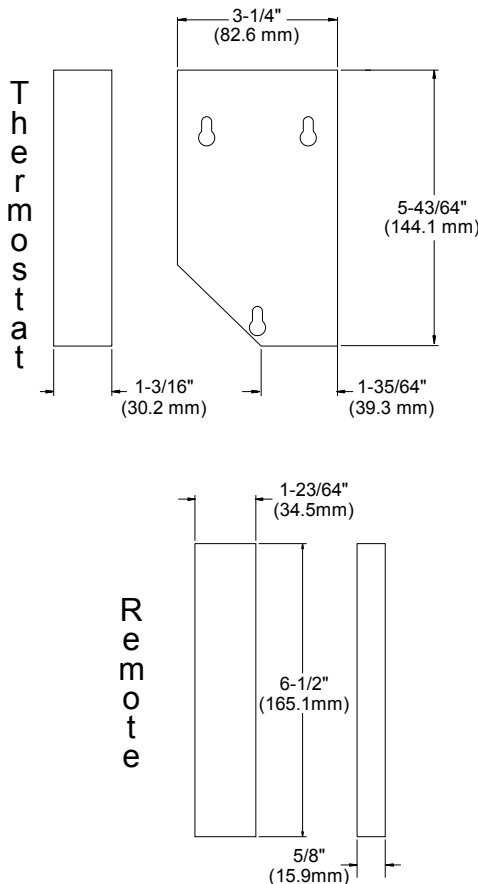
## BENEFITS & SPECIAL FEATURES



### Same benefits as the TP61 with the addition of remote control:

- 4 daily programs for M-F, Sat. and Sun.
- Digital 12/24 hour real time clock.
- 4 minute automatic time delay for compressor protection (may be bypassed).
- Ten year lithium battery for back up during power outages.
- Large, easy to read, LCD display.
- Temperature display—set point, inside and outside air—in F° and C°.
- Humidity display—set point, inside and outside air—in relative %.
- System status indicators.
- Learned response feature adjusts for changing climate.
- Manual on/off override.
- Temporary override with automatic resumption of program.
- Electronic program and temperature limiting and locking.
- Low and high limit temperature/humidity alarms can activate a dry contact to switch an external control.
- Remote temperature/humidity sensor (optional).
- Outside temperature/humidity sensor (optional).
- Automatic heating/cooling changeover.
- Continuous (on) or intermittent (auto) fan control.
- Infra-red remote control (internal) receiver (standard).
- Infra-red remote control transmitter (optional).
- Infra-red remote control (external) receiver (optional).

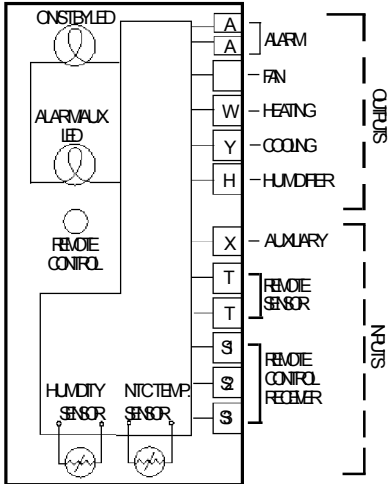
## DIMENSIONS



## SPECIFICATIONS

|  |   |
|--|---|
| Operating Voltage:                     | 24 vac (-15%, +10%, 50-60 Hz)   |
| Temperature Range:                     | 50°F - 90°F (10°C - 32°C)   |
| Humidity Range:                        | 5% - 95%  |
| Temperature Differential:              |   |
| Heating:                               | approximately ±0.8°F (.4°C)   |
| Cooling:                               | approximately ±0.8°F (.4°C)   |
| Humidity Differential:                 | ±5%   |
| Dead Band:                             | 4° F (2.2° C)   |
| Sensor System:                         | Negative Temperature Coefficient (NTC)  |
| Temperature:                           |   |
| Standard:                              | Internal  |
| Optional:                              | Remote  |
| Optional:                              | Outside Air   |
| Humidity:                              |   |
| Standard:                              | Internal  |
| Optional:                              | Remote  |
| Optional:                              | Outside Air   |
| Compressor Protection:                 | switched 4 minute time delay  |
| Switches:                              |   |
| Push-button:                           | MODE/CLOCK/SELECT/PROG/UP/DOWN  |
| Push-button:                           | SYSTEM: ON/OFF  |
| Rotary:                                | HUMIDITY  |
| Indicator LED's:                       | ON (Steady Green) / STBY (Flashing Green)<br>ALARM (Flashing Red) / AUX (Red)   |
| Display:                               | LCD, 4 character, .5" (1.27 cm) height.   |
| Security:                              | Electronic temperature limiting and locking.<br>Program locking.  |
| Dimensions:                            | Thermostat: 5 <sup>43</sup> / <sub>64</sub> x 3 <sup>1</sup> / <sub>4</sub> x 1 <sup>3</sup> / <sub>16</sub> Inches (144.1 x 82.6 x 30.2 mm)<br>Remote: 6 <sup>1</sup> / <sub>2</sub> x 1 <sup>23</sup> / <sub>64</sub> x 5 <sup>5</sup> / <sub>8</sub> Inches (165.1 x 34.5 x 15.9 mm) |
| Remote Control Transmitter (optional): | 7-button infra-red<br>(2) AAA   |
| Battery:                               |   |
| Range:                                 | 36' (10 meters)   |
| Remote Control Receiver (optional):    | infra-red   |
| Range:                                 | 36' (10 meters)   |

# MODEL NUMBERS AND DESCRIPTIONS FOR VARIOUS APPLICATIONS



Model Number: TQ611120  
 Description: 1 stage heat, 1 stage cool,  
 Remote control

Switching Current at 24 VAC:  
 Cooling: 1 Amp  
 Heating: 1 Amp  
 Humidifier: 1 Amp  
 Fan: 1 Amp  
 Alarm: 1 Amp  
 Auxiliary: 1 Amp  
 Weight: .4 lbs. (880 g)

## ACCESSORIES

|  |          |
|--|----------|
| Remote Temperature Sensor  | TX101001 |
| Return Air Temperature Sensor  | TX101011 |
| Outside Air Temperature Sensor   | TX101021 |
| Outside Humidity Sensor  | TX102021 |
| Remote Control Transmitter<br>(Compatible with internal and external remote control receivers.)  | TX502001 |
| Remote Control Receiver (external)<br>(Up to 5 receivers may be daisy chained to thermostat and placed at remote locations—relays signal from remote control transmitter to thermostat.) | TX503001 |
| Transformers:  |          |
| 40 VA  | TR140100 |
| 20 VA  | TR120100 |
| Relay Transformers:  |          |
| 20 VA (2) SPST 120 vac relay   | TR440200 |
| 20 VA (1) SPST 120 vac relay   | TR440300 |

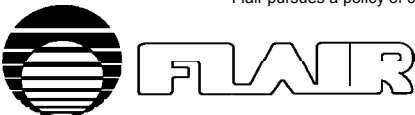
## APPLICATIONS

- Central (main) heating or cooling.
- Zone heating or cooling.
- Residential (Single or multi-family, Apartments, Condominiums, Co-ops).
- Commercial (Stores, Restaurants, Offices).
- Industrial
- Institutional (Hospitals, Hotels, Motels).

## REFERENCES

|   |                         |
|---|-------------------------|
| For More Information On:                                | See:                    |
| Non-Remote version                                      | TP61 data sheet         |
| Wiring, jumper, potentiometer settings and applications | Instruction sheet       |
| Other thermostats                                       | This section            |
| Zone Actuators  | Star Actuator section   |
| Zone Valves   | Star Valve section      |
| Wiring Panels   | Control Panels section  |
| Warranty & pricing                                      | Pricing & Terms section |

Flair pursues a policy of constant improvement. For this reason, all specifications are subject to change without notice.



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