

Young Regulator Co. 7100 Krick Rd • Walton Hills, OH 44146 P: 440-232-9700 • F: 440-232-8266 *www.youngregulator.com*

Submit T-720 – 5-13

Model T-720X

Digital Display Zone Damper Thermostat Proportional and Integral Control

Application and Design

The Young Regulator T-720 Proportional and Integral thermostatis specifically designed for zoning applications. Typical applications include pressure dependent VAV floating control with or without local reheat. The product features a backlit LCD display with dedicated function menu keys for simple operation. Accurate temperature control is achieved due to the product's PI proportional control algorithm, which virtually eliminates temperature offset associated with traditional, differential-based thermostats. When used with the optional S-720 sensor, the T-720 Thermostat has an integrated changeover function which will allow seamless switching between cooling and heating mode based upon supply air temperature.

The T-720 will control the following Young Regulator dampers:

- 4075 Round with Honeywell or Belimo floating point motors*
- 3085 Rectangular with Honeywell or Belimo floating point motors*
- 3045 Rectangular (medium duty damper) with Honeywell or Belimo floating point motor*
- 9011E VAV Diffusers with Honeywell or Belimo floating point Motors*

* these motors have 90 second timing

Also, The T-720 will control any damper with modulating motor with timing from 30 seconds to 9 minutes, consult the factory.

| FEATURES | |
|--|---|
| P+I - Proportional/Integral algorithm | Auto Changeover function when used with optional S-720 Sensor |
| 2 line, 16 character LCD display | EEPROM memory in the event of a power failure |
| SPST Auxiliary Switch for reheat or lighting | 3 add'l inputs for monitoring and / or various advance functions |
| Consult the factory to control 2 position motors | Keypad Lockout |



Model T-720A programmed at the factory for automatic changeover (S-720 Sensor Included)

Model T-720B programmed at the factory for cooling only.

Model T-720IF programed at the factory for "IF" series dampers.

| OPTIONS | |
|---|--|
| S-720 Supply Air Temperature Sensor for automatic changeover between heat and cool mode | BACnet, LonMark, Echelon, Zigbee Wireless network adapter |
| Remote Sensing | Optional model for 0-10Vdc Analog Control |
| IR Occupancy Sensor | |
| SPECIFICATIONS | |
| Thermostat power requirements | 19-30 Vac 50 or 60 Hz; 2 VA Class 2 |
| Operating conditions | 0 °C to 50 °C (32 °F to 122 °F) |
| Temperature sensor | 10 K NTC thermistor |
| Room air temperature display range | -40 °F to 122 °F |
| Wire gauge | 18 gauge maximum, 22 gauge recommended |
| Agency Approvals all models | UL, CSA and FCC |

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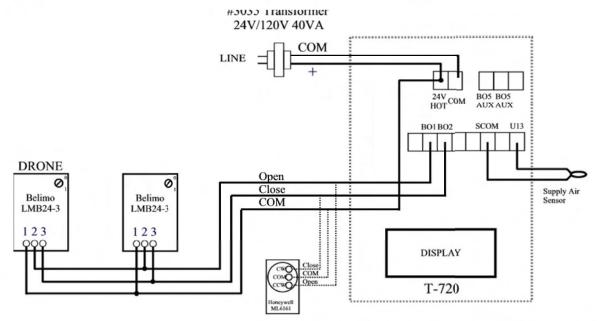
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T720A with supply air sensor for automatic changeover T720B for cooling only, omit the supply air sensor Master and drone actuators must be same model

