

Model ATM-1

Automatic Temperature Monitoring Alarm System



APPLICATION:

The Acorn Controls ATM-1 Automatic Temperature Monitoring Alarm System is ideal for monitoring domestic and institutional tempered water systems. With the use of an optional electronically actuated valve installed, the ATM-1 will alert and shut down tempered water flow when the water temperature exceeds high limit conditions. Most common commercial uses would include hospitals, shower rooms, therapeutic applications, boilers, and hot water heaters.



ATM-1

STANDARD ITEMS:

- Microprocessor Based Temperature Controller
- LED Temperature, Limit Setting, and Alarm Display
- 110 VAC to 24 VAC Plug-In Transformer (50 VA) With 10 Foot Cable Stainless Steel Cabinet
- Type "T" Thermocouple, with 10 Foot Cable
- Compression Fittings
- Red Warning Light and Buzzer
- Keyed Buzzer
- Latching Warning and Limit Alarm
- Manual Reset
- High/Low Temperature Monitoring
- Adjustable Temperature Settings
- Security Lockout Code

SPECIFICATIONS:

Mounting: Wall or Desk
 Electrical: 24 VAC
 Transformer: 110 VAC to 24 VAC Plug-in
 Power Consumption: 50 VA Max.
 Temp Range: 40°F - 199°F (4°C - 93°C)
 Accuracy: ± 1.0°F (± 1.8°C)
 Sensor: Type "T" Thermocouple
 LED Display: Red and Green
 Alarm: 2 Level High Temperature

DESCRIPTION:

The Acorn Controls Automatic Temperature Monitor (ATM) is a microprocessor based controller ideal for sensing and alerting of abnormal temperature conditions. Target applications for this device are in health care and nursing facilities but can be used anywhere a temperature alarm is required.

The ATM is factory preset as a high temperature alarm adjustable between 60°F and 180°F. It also provides two levels of alarm modes. The first provides a visual indication that temperature is above the normal limit (but not yet considered unsafe). The second level alarm provides an additional audible **BUZZER** warning of a potentially unsafe condition. The **BUZZER** can be turned off with **KEY SWITCH** during troubleshooting but the key cannot be removed while "OFF". This prevents the audible BUZZER from being turned off with the key removed. When paired with the optional **SOLENOID VALVE**, during the second alarm condition, the ATM will also shut down the flow of water to prevent distribution of potentially unsafe water.

The ATM's unique latching feature will remain in its alarmed state until the water temperature falls within acceptable limits (as defined by the installer/owner) and the ATM is manually reset. This feature gives facility owners piece of mind to know that nurses and attendants are always made aware that an abnormal condition did occur and warrants further investigation.

Acorn Controls assumes no responsibility for use of void or superseded data. © Copyright Acorn Controls, City of Industry, CA, Division of Acorn Engineering Company, a member of Morris Group International. Please visit www.acorneng.com or most current specifications.

Submittal # **ATM-1**
 Revised: 08/06/18

Certifications:



Est. 1954
ACORN ENGINEERING COMPANY
 Manufacturer of Engineered Products

Member of Morris Group International™

ACORN ENGINEERING COMPANY
 P.O. BOX 3527
 City of Industry, CA
 91744, U.S.A.
 Phone 800-488-8999
 626-336-4561
 Fax 626-961-2200
www.acorneng.com

OPTIONS:

Thermocouple Tees and Adapters:

- 1/2" NPT 3/4" NPT 1" NPT
- 1-1/4" NPT 1-1/2" NPT 2" NPT

Normally Closed Solenoid: With 10 Foot Cable

- 1/2" NPT 3/4" NPT 1" NPT
- 1-1/4" NPT 1-1/2" NPT 2" NPT

Water Hammer Arrestor (Lead Free):

- 1/2" NPT 3/4" NPT 1" NPT
- 1-1/4" NPT 1-1/2" NPT 2" NPT

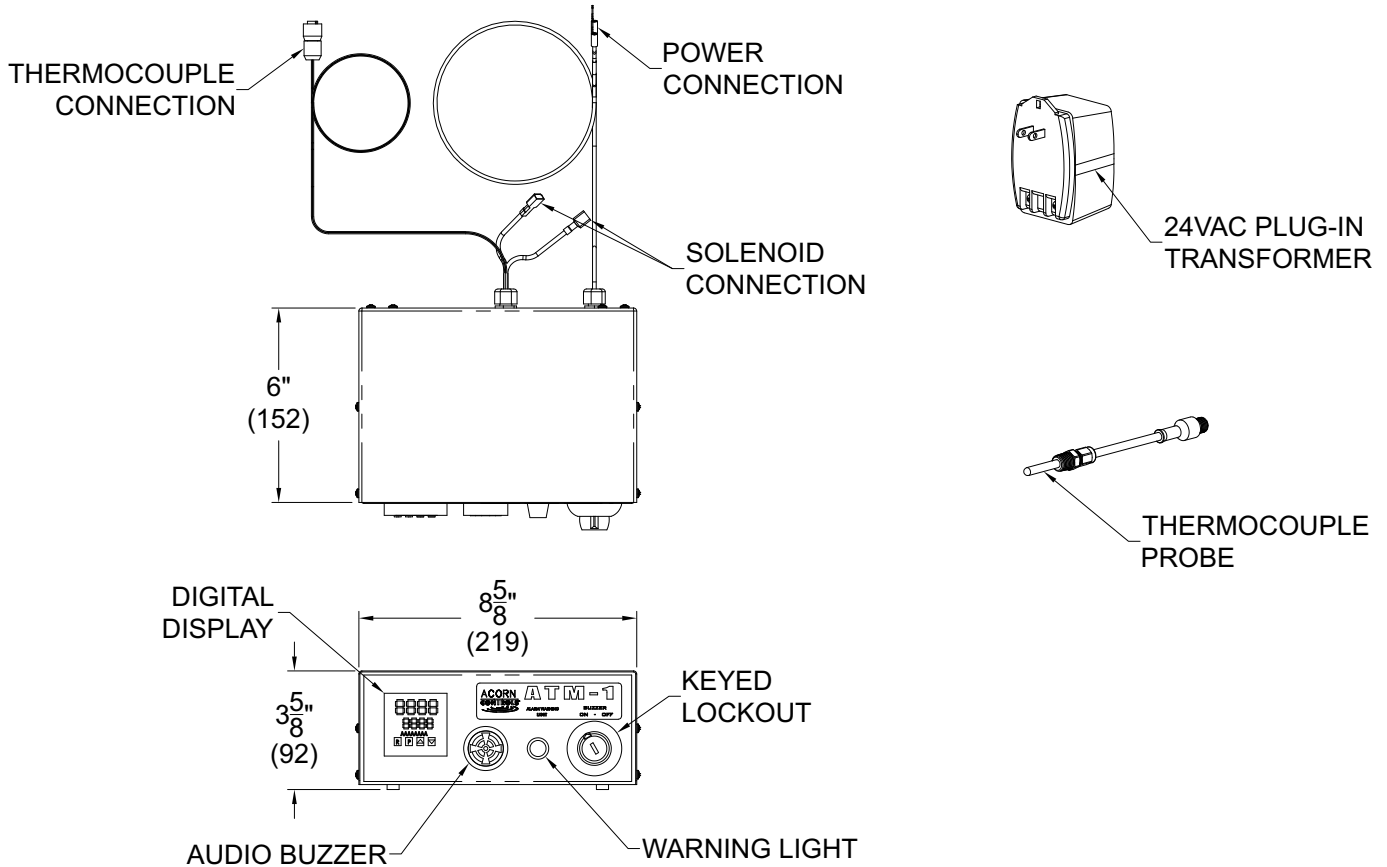
Additional cable, 10 foot segments:

Thermocouple Segment
 Specify Number of Additional Segments: _____

Solenoid Segment
 Specify Number of Additional Segments: _____

Wall Mounting Brackets

TECHNICAL DIMENSIONS:



ATM-1 Revised: 08/06/18

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Acorn Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. Industry, California.

SELECTION SUMMARY & APPROVAL FOR MANUFACTURING

Model Number & Options _____ Quantity _____

Company _____

Contact _____ Title _____

Signature (Approval for Manufacturing) _____ Date _____

ACORN
CONTROLS™

800-488-8999
 or 626-336-4561
www.acorneng.com