AGS
AMERICAN GAS SAFETY

AGSFAM1
Spec Sheet

Gas Service Manual Reset Controller

DESIGNED TO HELP MEET CODE & PROVIDE CONVENIENCE

120V Power Input

Auto Reset Option Following Power Cut/Failure

Valve Isolation Capabilities (With AGS Supplied Valve)

BMS/BAS Communications

Fire Panel & Panic Button Connectivity

Dry Alarm Relay

Simple & Quick Setup
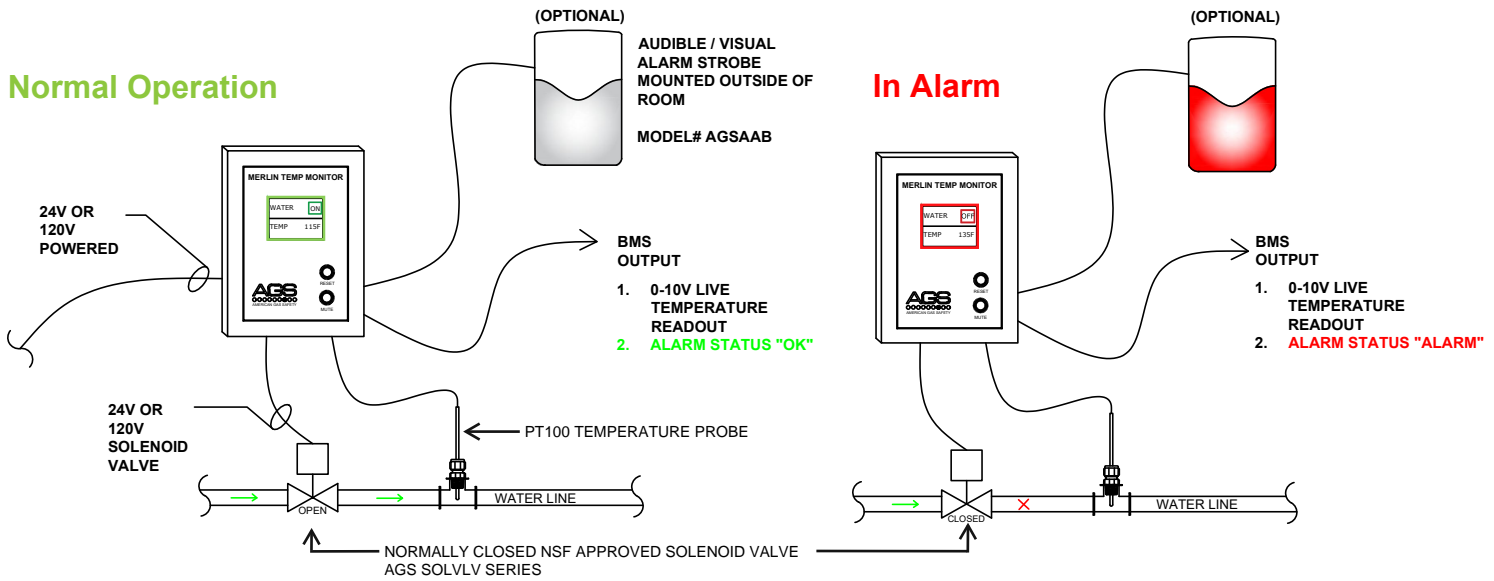
In-Built Audible Alarm

Product Overview

The AGS Water Temperature Monitor WTM is a carefully designed device that functions by monitoring and controlling the temperature of water in various applications. It is designed to be used in health care facilities, where it can help ensure that the water supply system is safe and reliable. The WTM features a simple user interface that allows for easy programming of minimum and maximum temperature settings, which can be adjusted via internal switches and fascia controls upon installation. When the temperature falls outside of these settings, an audible alarm will sound, and the water supply will be turned off until the issue is resolved. The AGS WTM includes a manual reset button on the front fascia that can be used to clear any alarm conditions and continue normal operation. The WTM also features a colored display that provides a continuous readout of the current temperature reading. Additionally, the WTM provides an adaptable relays and 0-10V output that can be tied into any Building Management System (BMS) for remote monitoring and control.

Technical Specifications

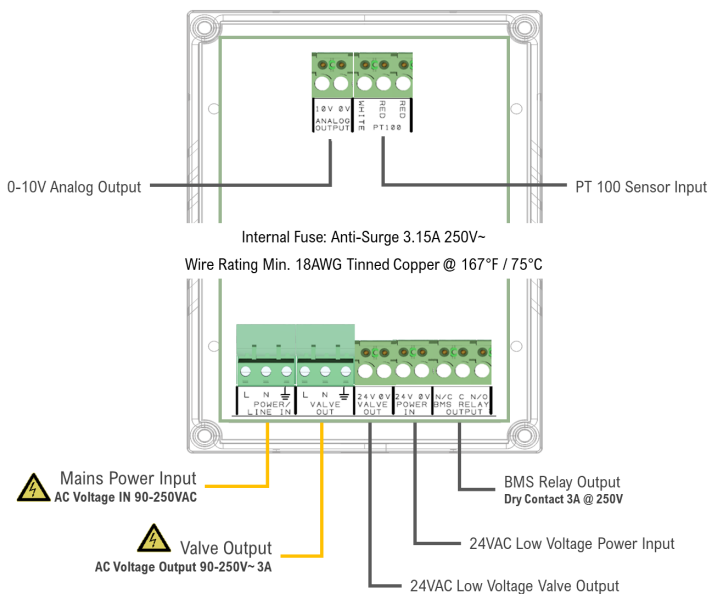| General	
Size: (H x W x D)	5.95 x 4.37 x 1.97" (151 x 111 x 50mm)
Housing Material:	ABS PA765 (Flame Rating UL94 V-1)
Mounting:	Wall/Surface Mounted. Indoor use only – Outdoor using weatherproof cover.
Display:	1.8" Color Display
Visual Indicators:	Power On LED
Audible Buzzer:	60dB @ 3.28ft (1m). Quiet conditions
Buttons:	Up, Down, OK, Reset, Mute
Power Consumption:	Power Consumption:
Power Input #1:	100-120V~ 50-60Hz
Power Input #2	24VAC
Internal Fuse:	Anti-Surge 3.15A @ 250Vac
BMS dry contact	3A @ 110V~
Relays	One Relay - 3A @ 110V~
Operating:	-20 ~ 50°C / 14 ~ 122°F 20 ~ 95% RH (non-condensing)
Typical	Min. 18AWG / 75°C min / Tinned copper.
Electrical Safety	CE / UKCA / IEC BS EN 61010-1

Typical Setup

Normal Operation

(OPTIONAL)

AUDIBLE / VISUAL ALARM STROBE MOUNTED OUTSIDE OF ROOM

MODEL# AGSAAB

MERLIN TEMP MONITOR

WATER | ON
TEMP | 115F

24V OR 120V POWERED

BMS OUTPUT

1. 0-10V LIVE TEMPERATURE READOUT
2. ALARM STATUS "OK"

24V OR 120V SOLENOID VALVE

← PT100 TEMPERATURE PROBE

OPEN

WATER LINE

NORMALLY CLOSED NSF APPROVED SOLENOID VALVE AGS SOLVLV SERIES

In Alarm

(OPTIONAL)

MERLIN TEMP MONITOR

WATER | OFF
TEMP | 135F

BMS OUTPUT

1. 0-10V LIVE TEMPERATURE READOUT
2. ALARM STATUS "ALARM"

CLOSED

WATER LINE

Water Solenoid Valves Available

Valve Size " (inch) NPT	AGS Part Number
1/2"	SOLVLV12
3/4"	SOLVLV34
1"	SOLVLV1
1+1/4"	SOLVLV114
1+1/2"	SOLVLV112
2"	SOLVLV2

Circuit Board Overview

10 0V
ANALOG OUTPUT
WHITE
RED
RED
PT100

0-10V Analog Output

PT 100 Sensor Input

Internal Fuse: Anti-Surge 3.15A 250V~

Wire Rating Min. 18AWG Tinned Copper @ 167°F / 75°C

L N | L N | 24V 0V | 24V 0V | N/C C N/O
POWER/ | VALVE | VALVE | POWER | BMS RELAY
LINE IN | OUT | OUT | IN | OUTPUT

⚡ Mains Power Input
AC Voltage IN 90-250VAC

⚡ Valve Output
AC Voltage Output 90-250V~ 3A

24VAC Low Voltage Valve Output

24VAC Low Voltage Power Input

BMS Relay Output
Dry Contact 3A @ 250V

Code Requirements

Wisconsin Code

SPS 382.50 Health Care & Related Facilities

(b) 5. Water provided to patient showers, therapeutic equipment and all types of baths shall be installed with control valves which automatically regulate the temperature of the water supply to the fixture fitting outlet within a temperature range of 110°F to 115°F. Such control valves shall automatically reduce flow to 0.5 gpm or less when the water supply to the fitting outlet exceeds 115°F or when loss of cold water pressure occurs.

California Code

613.5 – Domestic Hot-Water Distribution Systems for Health Facilities and Clinics

Temperature control valves shall be provided to automatically regulate the temperature of hot water delivered to plumbing fixtures used by patients to a range of 105°F (41°C) minimum to 120°F (49°C) maximum. High temperature alarm set at 125°F (52°C) shall be provided. The audible/visual device for the high temperature alarm shall annunciate at a continuously occupied location.

Find out more

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