



AMT Water Monitor Shut-Off System

Leak Detection, Flow & Pressure Monitoring,
Automatic Shut-Off

Technical Specification



An autonomous water-damage prevention system for private well, pressure-tank and municipal water installations. It continuously monitors flow, pressure, pump current, leak sensors, and environment, and closes the water supply automatically when an abnormal condition is detected. The system runs on its own - through utility power failure or loss of internet - and needs no cloud server or subscription. Designed and built in the USA.

Primary Purpose

The Water Monitor Shut-Off System mitigates, minimizes and prevents water damage in residential and commercial installations. It provides continuous automated monitoring of all water-system parameters and initiates an immediate shut-off when an abnormal condition is detected. The system operates autonomously, including during utility power failure or loss of internet, and requires no cloud server access or subscription service.

Secondary Benefits

Leak detection	Detects developing and active leaks across multiple zones
Pump failure detection	Identifies well-pump failure from current and run-time behavior
Water system testing	Built-in testing of the water system
Insurance	May qualify for a homeowners / building insurance discount (insurer may require third-party monitoring to qualify)

Continuous Monitoring

Flow	oz/min and gal/min
Pressure	Well pump / pressure tank and building pressure
Well pump motor current	Amps
Well pump run time	Logged continuously
Water softener	Regeneration cycle monitoring
Contact leak sensors	Multiple zones
Temperature and humidity	Continuous
Minimum detectable flow	0.05 oz/sec at all times - no special leak-test cycle required

Features

Flow sensor type	Pulse-output flow sensors
Data retention	Non-volatile memory retains total flow-usage data
Event logging	Logs all events: usage, pump run time, softener regeneration, and more
Data analysis	Analyzes all logged data and produces a summary report
Shut-off action	Can dump all system water pressure on a shut-off condition
Emergency shut-off	Pushbutton
Alarm output	Relay contact for horn / siren

Interface	Graphical touch screen
Valve control	Automated water-system valves (shut-off and dump)
Well pump power control	Single-phase 220 VAC, 30A Relay
Battery back-up	Standard
Alarm settings	User-configurable action settings and alarm limits
System testing	Built-in water-system testing

Communication

Remote access	View and control remotely over the internet from a PC or cell phone
Security integration	Integrates with building security systems
Alarm notifications	User-configurable text and email to multiple recipients



Control and Power Supply enclosures