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AT401 - Deluxe hard wired Leak Detection System

The AT401 is a fully programmable Leak Detection System with an integrated automatic Shutoff Valve. It is designed to detect leaks and thus help to minimize water damage, reduce water bills and stop water wastage. It will constantly monitor all the plumbing pipes, fittings and water using appliances on the property, and like a trip switch, will shut off the water automatically if a tap, fitting, pipe, toilet cistern or appliance is leaking or left running. It can detect the difference between your normal water use and a plumbing leak or tap left running by mistake, and alert you to plumbing problems as they occur, which you may otherwise be unaware of.

The AT401 uses a sleek wall mount Control Panel from which the user can control nearly all the functions of the system. It is powered by a 12v transformer with a built in backup battery in case of a power failure. The Control Panel is hard wired to the shutoff valve, which can be installed above or below ground, or inside the building, basement or machine room.

It has advanced features such as a Home / Away mode, Nightwatch, Smart Auto Away sensing, System Self Testing protocols and Sleep Modes so you can still run your irrigation without triggering the system.

It can also connect to an existing alarm system to trigger the alarm to notify your security monitoring service if a leak occurs. Its low cost and simple installation and operation make it perfect for use in apartments or residential houses alike, where it can provide silent, invisible and automatic plumbing protection.

Additional options and accessories available -

- Wireless Wetness Sensors can be fitted in areas where leaks are more likely (*on AT401R only, not available all markets*)
- The Control Panel can display your water consumption and its cost, if it is connected to your water meter. This feature requires an optional extra cable to connect to the water meter and is not available for all meters.
- For commercial applications, the system can be used to automate control of public washrooms and toilet blocks, or other commercial facilities with high water usage. (*see optional accessories available*).



Features

- **Patented Leak Sensor** with integrated shutoff valve, shuts off water once leak is detected
- **Wall Mount Control Panel** to program and control system (*with backup battery in case of power failure*)
- **Fast Test Facility** allows rapid check of system functions.
- **System Check Function** assists in quick identification of leaks when detected
- **Leak Detection Sensing System** has Peak / Off Peak water usage modes to enhance detection capability
- **Early Warning indicator** warns user before water is shut off - prevents water turning off unexpectedly.
- **Home/Away** modes for increased leak detection protection - Automatic or Manual settings available
- **Water Flow Indicator** on Control Panel
- **Output to trigger** a House Alarm or GSM dialer or Building Management System
- **Nightwatch** mode for increased overnight leak detection sensitivity
- **Sleep Mode** - Programmable leak detection Exclusion Period disables flow monitoring during Sleep Mode. Eg: when using garden irrigation systems, or during busy office hours in commercial washrooms
- **Temporary System Override** from Control Panel for occasional longer than normal water usage.
- **Emergency Manual Override** if system needs to be turned off for a longer period.
- **Water can be shut off** from Control Panel, no need to access the incoming main tap.
- **System has inbuilt self monitoring protocol** to check and maintain functionality
- **Replaceable mesh filter** protects units from debris in water supply
- **Optional wireless Wetness Sensors** available for more localised leak detection (with AT401R model only)
- **Accessory port** may allow connection of movement sensors, reset switches or water meter input signal.
- **Can display real time water consumption and cost** if able to be connected to the existing water meter*
- **Available with either PVC or S/Steel Shutoff Valves** — optional sizes from 15mm to 50mm available

*Not compatible with all meters, additional parts will be required



Technical Specifications (* denotes optional valve sizes available to order)

MODEL	AT401-P25	AT401-P50*	AT401-S15*	AT401-S20*	AT401-S25*	AT401-S40*
Valve Size	1" 25mm	2" 50mm	1/2" 15mm	3/4" 20mm	1" 25mm	1 1/2" 40mm
Valve Material	PVC	PVC	SS316	SS316	SS316	SS316
Valve Thread	BSP or NPT					
LxWxH in mm	84 x 77 x 179	160 x 120 x 285	68 x 48 x 152	80 x 55 x 161	95 x 69 x 167	128 x 94 x 174
Operating Pressure Range	10 - 150 PSI	20 - 150 PSI	7 - 150 PSI	7 - 150 PSI	7 - 150 PSI	7 - 150 PSI
	69 - 1034 KPa	138 - 1034 KPa	49 - 1034 KPa	49 - 1034 KPa	49 - 1034 KPa	49 - 1034 KPa
	0.69 - 10.3 Bar	0.69 - 10.3 Bar	0.5 - 10.3 Bar	0.5 - 10.3 Bar	0.5 - 10.3 Bar	0.5 - 10.3 Bar
Maximum Operating Pressure	150 PSI					
	1034 KPa					
	10.3 Bar					
Operating Temperature Range	0 °C - 50 °C					
	Cold Water only					
	33 °F - 122 °F					
Flow Range	0 - 113 L/min	18 - 454 L/min	0 - 126 L/min	0 - 186 L/min	0 - 240 L/min	0 - 460 L/min
	0 - 22.2 GPM	5 - 120 GPM	0 - 33 GPM	0 - 49 GPM	0 - 63 GPM	0 - 121 GPM
Flow Sensing Capacity	From 50ml/min					
	From 1.7oz per min					
Power Source	500ma 12v PSU					

Optional Accessories available

Part Number	Description
WS1	Wireless Wetness Sensing signal station - floor mount control box with integrated sensor - for use with AT401R only
WS2	Wireless Wetness Sensing signal station - wall mount control box with sensor component on separate fly lead - for use with AT401R only
SB-02	Wireless stainless steel vandal resistant reset Switch Box for commercial washroom applications - for use with AT401R only
SB-04	Wireless plastic reset Switch Box for domestic or commercial applications—for use with AT401R only
PIR-BP1	Ceiling mount Movement Sensor with 10 year lithium battery
MW15	In ceiling mount Microwave Detector with 12v power supply
VB-220R	Ground Box 220mm round
VB-200S	Ground Box 200mm square
EXT- RA90	90 degree Adapter for vertical pipe installations

Certification and Regulatory



CERTIFIED TO
NSF/ANSI 61 & 372