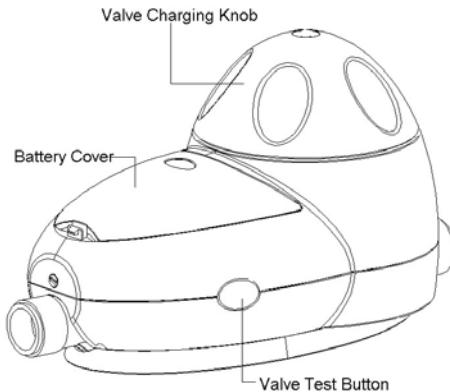


## DETECTOR VALVE



**1. Valve Charging Knob.** This Control is used to "Recharge" the valve after it has closed. To achieve this carefully rotate the knob clockwise 90 degrees from the off position until it stops (this point is indicated on the body). Carefully release the knob and it will remain in position.

**2. Valve Test Button.** This is the Detector Valve test button and should only be used if you cannot reach the Remote Controller and need to **shut off** the incoming water supply. The valve must then be manually reset as described in (1) above.

**3. Battery Cover.** To remove the battery covers gently press the clip in the direction of the arrow and then pull upwards. The batteries require careful insertion to ensure the correct polarity and connection. Only use prime quality AA batteries and only replace a complete set of cells. Take extreme care in the use and disposal of batteries as there is a risk of fire or explosion if cells are not handled or disposed of correctly; the SME 110vac mains transformer is available as an optional extra.

### IMPORTANT NOTE FOR HOUSE BUILDERS

The LD20-D Leak Tracker has features which protect new homes during the final stages of construction prior to the "handover".

Once the LD20-D is installed it is recommended that the system is set to the Manual Mode (15 minute setting).

If a higher degree of protection is required select the away mode

This setting will only allow 2 minutes of high water flow and 10 minutes of low water flow (3gallons/hr or less) sufficient for cleaners, tradesmen and sales staff etc, to carry out their duties. In the event of a need for more water the valve can be simply reset to restart the water flow.

To ensure the system is not tampered with or abused, the controller can be removed from the new home to a safe keeping place. The valve will still offer maximum protection but without the audible alarm feature. The incoming homeowner can then be presented with the controller & user guide instructions.

**The Remote Controller and Detector Valve are factory registered to each other and will only work together, serial numbers are affixed to both valve and controller for identification**

### Solutions Made Easy Limited

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## LEAK TRACKER

### LD-20D

## USER GUIDE

110VAC ONLY USE ONLY

FCC ID : SSULD20D100  
FCC ID: SSULD20D200

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.



## CONTROL BUTTONS

**Protective Button Cover Flap.** (1) To ensure no accidental control inputs are made to the system keep the protective flap closed during normal use.

**Valve Close Button.** (2) Press to shut off the incoming water supply. The valve must then be manually reset every time the Valve Close Button has been pressed.

To ensure reliable service test once every month by pressing this button. Failure to do this will invalidate the Guarantee.

**Manual / Auto Mode Selector Button.** (3) Press to select either Manual or Auto Mode. LEDs 15 or 11 (see diagram) will indicate which mode has been selected.

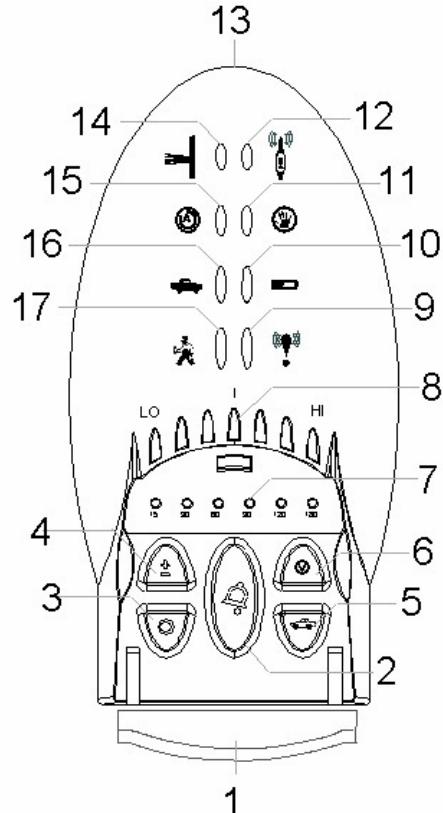
**Manual Time Adjust Button.** (4) (Use in manual mode only) Pressing this button repeatedly will select the desired water flow time on the time display (7). This is the amount of time that water is allowed to flow continuously before the alarm is sounded indicating a problem. After a further 10 minutes the valve will close, shutting off the water supply if the reset button is not pressed to cancel the alarm. When in the manual mode should no flow occurs for 12 hr, the flow control time will automatically set to the minimum time setting of 15 minutes for added protection. The initial setting is then restored following the first usage of water.

**Away Mode Selector Button.** (5) This mode should be selected if the property is to be left unoccupied for longer than 24 hrs. In the event of any abnormal flow or leak the water supply is closed after a period of 10 minutes on flows below 3 gallon/hour or 2 minutes where the water flow is higher, i.e. in the event of a significant leak or a burst pipe.

**Reset Button.** (6) The Reset button is used to cancel an alarm signal or for cancelling any incorrect user input.

## MODES

**Auto Mode** computes the best protection flow / time settings for an occupied property and collects your water use data for the 'economiser' function and stores the data in its memory. To automatically set up your system; press and hold down the manual/auto button (3) for 5 seconds, until the economiser lights (8) scroll up and down continuously. The lights will scroll up and



down for the 48 hour sampling period. When a single time light remains illuminated the system has then auto-set. *During this 48 hour learning period only flows exceeding 180 minutes duration will trigger an alarm.*

**It is important that no other control inputs are made to the controller or valve during this set up period & that you use water wisely during the "set up" period to provide a low water use benchmark.**

**Plumber Mode** when a small non damaging leak such as a running toilet valve has been detected and a plumber is not immediately available to rectify the problem, press and hold the Reset (6) button until 2 audible "beeps" are heard then immediately press the Away button (5) and release. This plumber mode will remain active for 4 days; thereafter the system will revert to the previous setting. This mode can be cancelled by pressing the Reset button (6) at any time. *Note: Water leaks above 3 gallons/m will alarm as normal in this setting.*

## CONTROL LEDs

**Manual Time Display LEDs.** (7) (15 - 180 minutes) Displays the chosen time setting when the manual control function is selected or the unit has auto set.

**Economiser Water Use Gage LEDs.** (8) This function requires the unit to have been set in the Auto Set Up mode on commissioning or at a later stage. Normally the gage will show at least two lights in either Auto or Manual modes, the centre (amber) light is the average daily water use computed at **Auto Set up**, the second light shows whether the previous days water usage is great or lower than the average daily use pattern recorded at the time of set up. It is recommended that Auto Set Up facility is used to recalibrate the economiser base data if water usage patterns change due to seasonal effects such as irrigation systems, swimming pool filling or change of occupancy patterns etc.

**RF Signal Strength Warning LEDs.** (9) If lit indicates the RF signal is weak. Press reset (6) to cancel the light. If the light is still lit move the controller to a power socket closer to the valve and test again until the light is extinguished.

**Battery Low Warning LEDs.** (10) If lit indicates the valve batteries are low (or when installed the optional wet sensor battery is low). Individual battery inspection and replacement is required - if ignored the valve automatically shuts off the water.

**Manual Mode LED.** (11) Lit when Manual Mode is selected.

**Wet Sensor Alarm LED.** (12) (Optional) Lit when water has been turned off by a wet sensor signal.

**Audio Alarm Beeper.** (13)

**Leak Detection Warning LED.** (14) Lit when a leak or abnormal flow has been detected.

**Auto Mode LED.** (15) Lit when the Auto mode is selected.

**Away Mode LED.** (16) Lit when the Away mode is selected. *Always test the valve prior to vacations.*

**Plumber Mode LED.** (17) Lit when a small leak has been detected such as a toilet overflow.

Once the system has been set the controller can be unplugged and relocated to any convenient socket provided this is within RF range without losing the system settings or compromising the protection.