

Leak Frog

Meter Leak Analyser

FLOW MEASUREMENT DATA LOGGING LEAK DETECTION PRESSURE CONTROL ENVIRONMENTAL MONITORING



KEY BENEFITS

- Easy to deploy and collect.
- Easy to interpret results.
- Indicates leakage, wastage and flow.
- Custom LCD display indicates interval between pulses, leak size, unit activity and other data.
- Easy integration with existing meter reading cycle and systems.
- Enables water to be saved by identifying leakage and wastage.
- Improves customer service by reducing property damage caused by undetected leaks.
- Enables total water balance within a District Meter Area (DMA)
- Enables reporting and compliance targets to be met.
- Allows capital deferment (eg. of reservoirs)
- Increases security of supply.
- Improves conservation performance.
- IP68 - submersible

Leakfrog provides an innovative and highly cost effective method of detecting Customer Side Leakage (CSL) by monitoring the minimum flow rate.

The low cost device can be quickly connected to a pulsed output meter and displays the maximum time interval between pulses. The reasons for unexpected water usage can then be investigated, leading to reduced water consumption.

No programming is required during installation, and the long battery life means that the unit can be deployed permanently if required. Leakfrog allows large volumes of minimum flow data to be collected simply and efficiently using existing IT infrastructure such as handheld meter reading devices.

Leakfrog has a long battery life and is both rugged and lightweight.

Furthermore, it has a low cost, facilitating volume installations in homes and can be connected to all pulse meters either with an integrated reed switch or via an additional pulse lead.



For more information call (513) 831-9335
or visit www.fluidconservation.com

A HALMA COMPANY

Leak Frog

Meter Leak Analyser

FLOW MEASUREMENT DATA LOGGING LEAK DETECTION PRESSURE CONTROL ENVIRONMENTAL MONITORING

Sensor Input Option	Digital x 1	Input 1: The device has a button to reset the unit.
		Input 2: The device attaches to pulsed output meters and records pulses via an integral magnetic reed switch assembly.
Display Features	Type	Custom 4 digit LCD Display
	Display Int.	"0000" to "9999" seconds
	Operating Modes	Output 1: 0000 – Initially after reset.
		Output 1: 0001 – to indicate that the time between pulses is less than 2 seconds since reset.
		Output 1: 0002 - 9998 – value in seconds displayed of the maximum time stored between pulses since reset.
		Output 1: 9999 – value in seconds displayed when the maximum time between pulses is equal to or greater than 9999 seconds since reset.
		Output 2: Maximum interval pending (arrow symbol). In the case where the unit has sampled and reported an interval and is currently counting a longer interval the unit indicates that it is in the state of sampling the current largest gap between pulses.
		Output: 2 ON is indicated by an arrow symbol in the top right hand corner of the display.
		Output: 2 OFF otherwise.
		Output 3: Heartbeat. A "frog" shaped heartbeat (cycle time approximately 1 second) is displayed in the top left hand corner of the display to indicate that the unit is currently monitoring for the maximum interval between pulses.
		The Heartbeat will:
		Output 3: STATIC , (on or off) when the flow rate is 1 pulse per second (+/- 10%)
		Output 3: FLASHING After the reset button has been pressed.
		Output 3: OFF when the unit is displaying 9999 seconds.
Output 4: Continuity check. The unit displays a square wave shaped 'continuity' check symbol in the bottom left hand corner of the display indicating the state of the internal reed switch.		
Output 4: ON when the meter's pulsed output unit is under the sensor, forcing it to be closed.		
Output 4: OFF in all other cases.		
Physical	Dimensions	90 x 50 x 30mm
	Construction	Polycarbonate
	Weight	270g
	Operating Temp	-10 to +70 C, (-5 to +160F)
	Ingress protection	IP68 submersible
	Power	Lithium thionyl chloride cell operational for 4 years under normal operating conditions
	Operation	Single sealed push-button operation for reset

FCS reserve the right to change the specification of any product without prior notice.

Fluid Conservation Systems
 a Division of Palmer Environmental
 502 TechneCenter Drive, Suite B, Millford, Ohio 45150 USA
 Tel: (513) 831-9335/(800) 531-5465 Fax: (513) 831-9336
 fcsinfo@fluidconservation.com
 www.fluidconservation.com