

AE-BT01 - ELECTRONIC FLOWMETER

Battery powered flowmeter for use in water applications

The AE-BT01 flowmeter switch has been developed by Applications Engineering Ltd to measure flowrates from 20 – 1160 l/pm in water pipe systems

Features

- Digital Display
- Battery operated (2 x AAA batteries)
- Large Flow range
- Flow rate & total flow displayed
- Unions for easy removal



Models	Diameter (mm) Internal/External	Flow Rate (l/min)	K Factor (Pulse/litre water)	Net Weight (g)
DN25	25/32	20-280	39	375
DN32	32/40	40-460	23	450
DN40	40/50	50-750	16	550
DN50	50/63	60-1160	10	795
DN65	65/75	80-1980	7.5	975

Technical Data	
Max Working Pressure	20 Bar
Measurement accuracy	±5%
Medium	Water
Material	UPVC Plastic
Repeatability	±0.5%
Units of Measurement	Litres/L, Gallons/GAL, Pints/PTS, Quarts/QTS

Order Codes	Description
AE-BT01-DN25-S	25mm flowmeter with 1" female threads
AE-BT01-DN32-S	32mm flowmeter with 1 1/4" female threads
AE-BT01-DN40-S	40mm flowmeter with 1 1/2" female threads
AE-BT01-DN50-S	50mm flowmeter with 2" female threads
AE-BT01-DN65-S	65mm flowmeter with 2 1/2" female threads
AE-BT01-DN25-S-BB	25mm flowmeter with 1" CPVC adaptors
AE-BT01-DN32-S-BB	32mm flowmeter with 1 1/4" CPVC adaptors
AE-BT01-DN40-S-BB	40mm flowmeter with 1 1/2" CPVC adaptors
AE-BT01-DN50-S-BB	50mm flowmeter with 2" CPVC adaptors

Setting Instructions

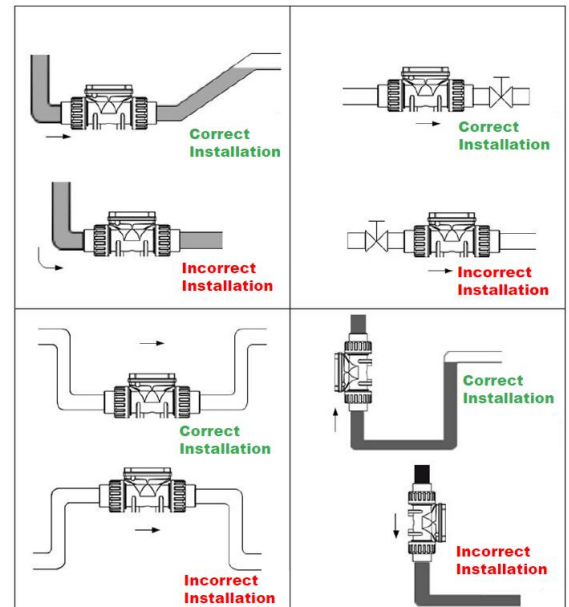
1. When in counting or standby mode, press the 'CLEAR' key, the LCD will display the full screen, release to return to standby mode and the single count number will be cleared
2. When in counting or standby mode, press the 'SET' key to switch from flow rate to total flow, press and hold the 'CLEAR' key for more than 5 seconds, after 5s, the LCD screen will automatically return to standby and the value will be reset
3. When in counting or standby mode, press and hold the 'SET' & 'CLEAR' keys for more than 5 seconds to switch the unit of measurement, use the 'CLEAR' key to switch between L, GAL, PTS & m3. When finished setting, long press the 'SET' key to save and exit, the system will automatically save and exit after 30 seconds.



Set Key: Switch interface between flow rate and total flow

Clear Key: Clear the data total measurement

CORRECT INSTALLATION POSITION



Type of disturbance	Minimum inlet pipe length	Minimum outlet pipe length
Flange	10x Pipe ID	5x Pipe ID
Reducer	15x Pipe ID	5x Pipe ID
90° elbow	20x Pipe ID	5x Pipe ID
Two elbows - 1 direction	25x Pipe ID	5x Pipe ID
Two elbows - 1 directions	40x Pipe ID	5x Pipe ID
Pump or gate valve	50x Pipe ID	5x Pipe ID

Installation

The accuracy of the flowmeter is affected by disturbances such as, elbows, tees, valves, pumps, in the pipe. When installing the flow meter, install in a straight run of pipe as far as possible from any disturbances. The minimum straight pipe length required after different disturbances is listed in the table above.

The flow meter can be mounted in a horizontal or vertical direction. Mounting vertically (twelve o'clock) position on horizontal pipe is the most accurate mounting method. Do not install the flow meter below 45° from vertical on horizontal pipe.