



**AUTOMATED  
METER READING**



# Mast II

## Mobile advance step tester

MAST (Mobile Advanced Step Tester) is a radio based system which gives the operator immediate notification of flow change at the receiver as a valve is operated. This allows potential leak areas to be quickly identified and quantified, avoiding the need to complete a full step test for later comparison with logged data. The new MAST II device builds on the success of the MAST system and features a more portable user friendly unit with improved radio telemetry.

Step testing is an effective, flow-based method of localizing water loss within a zoned distribution system. It works by continually measuring the flow of water into a zone as valves are shut off in sequence.



### Key Features and Benefits

- **Compact:** Increased portability and ease of use
- **Improved radio telemetry:** Improve speed of data transfer
- **Real-time data:** Instant response to flow changes
- **Accurate:** Highly accurate method of detecting potential leak sites on plastic pipes
- **User friendly:** Single user operation and luminous keypad
- **Time synchronisation:** Data storage and valve closures are time-synchronised with graphical results.
- **Long coverage:** MAST radio coverage up to 6 miles
- **"Step":** Water loss localised to a specific area ("step").

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### Applications

Step Testing can be used in all networks, but is particularly suited to identifying areas of leakage on plastic pipe materials, where leak noise is absorbed and conventional acoustic methods are less effective.

Testing usually takes place during the night when water consumption is at its lowest so that shutting off the supply causes minimum disruption. The areas of the pipeline showing unexpected water losses can then be identified and investigated.



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