

MAST II

Mobile Advanced Step Tester



KEY BENEFITS

- New compact design for increased portability and ease of use.
- Interface to all standard meter types
- Improved radio telemetry to improve speed of data transfer
- Real-time data provides instant response to flow changes
- Highly accurate method of detecting potential leak sites on plastic pipes
- Water loss localised to a specific area ("step")
- Single user operation
- Luminous keypad
- Data storage and valve closures are time-synchronised with graphical results
- Minimal consumer disruption
- MAST radio coverage up to 6 miles

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. 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.

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.

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 MAST system comprises two instruments:

- A data logging unit with high power radio transmitter
- A portable flow indicator/recorder with integral radio receiver.

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.

COMPACT
DESIGN

PORTABLE

REALTIME
DATA

SINGLE
USER



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

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MAST II

Mobile Advanced Step Tester

FLOW MEASUREMENT DATA LOGGING LEAK DETECTION PRESSURE CONTROL ENVIRONMENTAL MONITORING

(1) Data Collector/Transmitter

Flow sensor	All standard flow sensor pulse heads supported
Logging intervals	5, 10, 15, 30 seconds 1, 2, 5, 10, 20, 30 minutes
Display	High efficiency LED for good day/nightvision
Memory	8Kb ROM
Identifier	4-digit data selector/scrambler preset to avoid crosstalk from other systems in area
Data entry	Custom membrane waterproof switch panel
Transmission Distance	Up to 6 miles terrain dependant
Power supply	Rechargeable Lithium Ion battery
Operation time	Up to 8 hours between charges
Housing	Rugged weatherproof enclosure to IP67
PC Software	'Windows' based support software

(2) Portable Flow Indicator/Receiver

Operating modes	Reference flow (start flow), current flow or step
Memory	32Kb RAM, battery-backed
Data synchronization	Battery-backed real-time clock
Display	LED (Rx Only) Screen 80mm x 25mm
Data entry	Custom membrane keyboard
Data output	RS232 interface to PC
Identifier	4-digit security code to accept data only from correct transmitter
Power supply	Rechargeable Lithium Ion battery
Operation time	Up to 8 hours between charges
Housing	Rugged weatherproof enclosure to IP67

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

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