



ALSONIC

Ultrasonic Building Automation Water Meter

ALSONIC MN

GENERAL

SMARTMEASUREMENTTM ALSONIC MN are designed for small pipes as well as a better solution where small pipes ultrasonic technology. There is no need for coupling gels used for clamp on transducers. The plug and play method uses a circular magnetic steel to achieve better contact between the traducers and the pipe wall. It takes only 2-3 minutes reducing considerable install time compared to clamp-on transducers.

The Alsonic MN has individual fittings for pipes of DN15-DN40, LCD display, analog and MODBUS outputs. The Alsonic MN is designed for the chemical, Di-water, food and beverage or applications for small pipes and low flows of relatively clean liquid or where contact with the fluid must be avoid. ALSON-IC MN can be used in many material such as stainless steel pipe, carbon steel, copper pipe, plastic pipe (PVC, PVDF, PPR, PPH, HDPE, etc.)

ALSONIC EG MN is MN type with RTD as energy meter.



SPECIFICATIONS

• Measuring Principle: Transit time ultrasonic

Model: ALSONIC MN
 Flow range: 0.1 m/s~5.0 m/s

• Accuracy: std ±2% RD, opt ±1%RD

• Repeatability: 0.8%

• Pipe size: DN15~DN40

• Data storage: Daily, monthly, and attual, total, etc.

• Analog output: 4~20mA, Maximum load: 600Ω

• Alarm output: OCT, Upper and lower limit alarm

function (optional)

• Communication: RS485, Support modbus

communication protocol

• Power supply: 10-24 VDC/1A

• Case material: Aluminum alloy and ABS

• Protection: IP65

• Cable length: 1.8m -std

• Keypad: Five light touch buttons

• Screen: LCD 256*128 display screen

• Units: Metric and imperial units are available,

Cubic Meters (m³), Liters(L),

USA Gallons(GAL)/hour, /min,

Default unit setting: m³ /h

• Totalizer: Six bit digit

• Piper material: Stainless steel pipe, carbon steel pipe,

copper pipe, plastic pipe

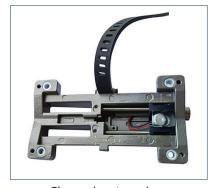
Environment temp: 0°C~50°C (32°F~122°F)
 Medium temp: 0°C~50°C (32°F~122°F)

• Environment humidity: 0-95% relative humidity, without

condensation

ENERGY METER COMPOSITION





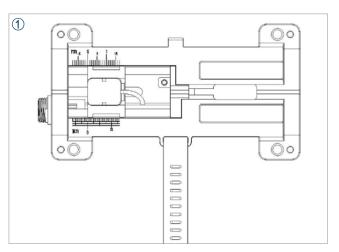


ALSONIC MN

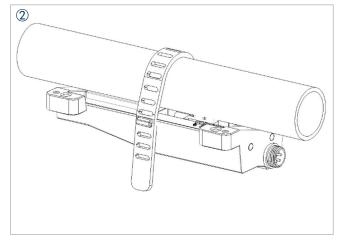
Clamped on transducer

Connecting Cables

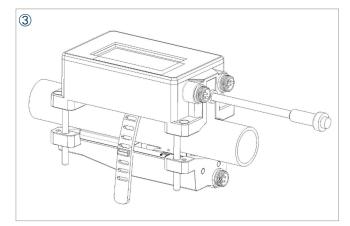
TRANSDUCER INSTALLATION STEPS



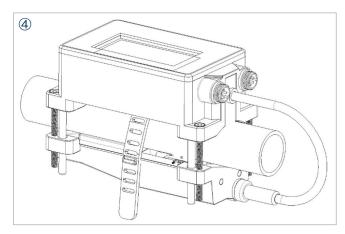
Please set parameters of M10 and M12 according to the actual situation on site, and adjust the end distance of the sensor according to the installation distance of M14. As shown in the figure below.



Fix the flow meter bottom part on the pipe on with the rubber strap supplied with the product.



Insert the four fixing brackets of flow meter top part into the corresponding holes. Lock screws to fix both top and bottom part of flow meter.

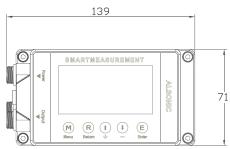


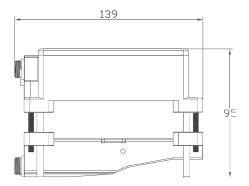
Insert the aviation plug of the upper cover into the corresponding position of the bottom cover and tighten it. Then the installation is complete.

Ultrasonic Flow Meter ALSONIC MN

ALSONIC MINI FLOW METER

■ DIMENSIONS



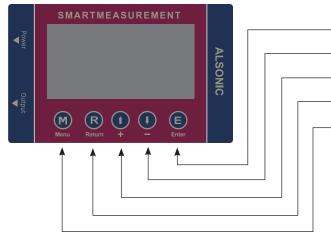


■ FLOW RANGE

Pipe diameter	Upper limit flow value (L/min)
DN15	60 L/m
DN20	100 L/m
DN25	200 L/m
DN32	300 L/m
DN40	400 L/m

Note: The inner diameter of the minimum measurable pipe section is greater than or equal to 12mm

DISPLAY



Enter the main menu/confirm the current input and options

Scroll down/Next option/Next number

Page up/Previous option/Previous number

Go back to the previous menu/delete the previous input data

Used to switch between the six categories of menus.

Note: In normal conditions, press [Enter] key to alter the parameters; if you can't alter related parameters after pressing [Enter] key, it is possible that the system protection function is enabled to avoid touching by mistake. Please enter M54 menu and input the codes (if not available, it would be the ex-factory codes) to enable the correction authority.

Clean the tube



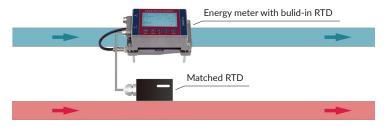
Make sure there are no dirt, paint, or other stains on the surface.

Install the flow sensor



Install the bracket on clear tube, then install flow sensor on the bracket.

■ Ultrasonic Energy meter



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Ultrasonic Flow Meter ALSONIC MN

Please contact your **SmartMeasurement** application engineer You also need to provide the following information:

TYPE OF FLUID
FULL-SCALE FLOW RATE
LINE SIZE

PRESSURE & TEMPERATURE

Please provide the name of your fluid, including operating density and viscosity

Please provide the max and min flow rate, normal flow rate also

Please provide the line size and connection

We will calibrate your flow meter as close to your operating conditions as possible

ALSONIC-MN SERIES EXAMPLE: ALSONIC-MN ALSONIC DESCRIPTION Flow meter -Ultrasonic clamped-on mn type, display, DC power MN Flowmeter type Energy meter - - Ultrasonic clamped-on mn type, one build-in EG MN RTD, display, DC power Standard -DN15 to DN40, up to 50°C Ν **Transducers** Special transducer Standard 4-20mA and RS485 NN Output Other output None NN **OCT** (Frequency) OT **Output options** OR 1 Relay Standard ±2% RD meter with 2m signal cable NN ±1% RD meter with multiple calibrations HA Matched RTD for energy meter with 9m cable **RTD Options** Thickness gauge TT Other options

