



## Portable Clamp-on Flowmeters

### The ideal solution for plant surveys



Handheld  
(MU-HA)



Portable  
(MU-PO)

The handheld type is one of the most advanced portable ultrasonic flowmeters out there in the world. The size is a little bigger than a PDA but offers capability to measure all pipe ranges from 15mm to 6000mm.

The Sensors are designed for maximum ease of operation and have magnets that make the Sensor installation much easier.

They can also be easily moved from one job site to another. There is no need to cut the pipe or interrupt the flow.

16 site installation parameters are stored for easy retrieval and quick setup and operation.

The meter uses Ni-H battery that runs about 10 hours under maximum load and is recharged full in 6 hours.

Utilizing the built-in data logger, process history can be recorded and stored or downloaded to a PC or laptop.

The legacy portable type is equipped with dot printer that prints out the measurement data at real time.

The portable ultrasonic flowmeters are ideal check meter for verification of your mechanical meters, and/or measurements in locations that are not currently being metered.

Many water service companies around the world are using these meters as their audit meters.





# Quick and Easy

## A must-have for process validations

The portable types, handheld and portable, based on the same technology of wall-mount and panel mount feature significant size reduction. While attaining the same functionality and accuracy, they reduced the sizes and weights to increase the ease of use and increase the data logging capability.

The handheld type (MU-HA)'s single-handed portability means difficult and challenging jobs located in narrow or high places can now be performed safely and easily.

We highly recommend picking up of the MU-HA for use in flow measuring tasks that demand both portability and advanced performance.

The data can be stored on the built-in data logger (for MU-HA) or add-in data logger module (for MU-PO, MU-WA & MU-PA). The data so stored can be downloaded to a PC on a MicroSoft Excel spreadsheet with just a click of a mouse button.

The handheld kit and the portable kit including all their accessories are both housed in rugged and compact aluminum cases for easy and safe carry-around.

When the Sensor sealant is used up, the customer can use normal grease that can be purchased at any gas station or oil shop. And the printer paper and ink tape can be purchased at a print shop easily. So, once the customer owns the meter, they don't need to rely on us for supply of those expendable or consumable items.

Clamp-on flowmeters are recommended if you need:

- easy/low cost installation
- no interruption in operation; no need to cut pipe
- no periodic cleaning and moving parts to wear or foul
- no contact with media
- large pipe diameters up to 6000 mm (240")
- media under high pressure
- minimal maintenance
- no pressure drop or energy loss
- wide turn-down ratio



Handheld (MU-HA)



Portable (MU-PO)



Ultrasonic Thickness Gauge



SD Memory Card Module (81 x 31 x 8mm)



GUI for remote controlling/ monitoring



GUI for Downloading of data to PC

