

# WT300E: Power Consumption Measurement of Battery-operated Electromagnetic Flow Meter

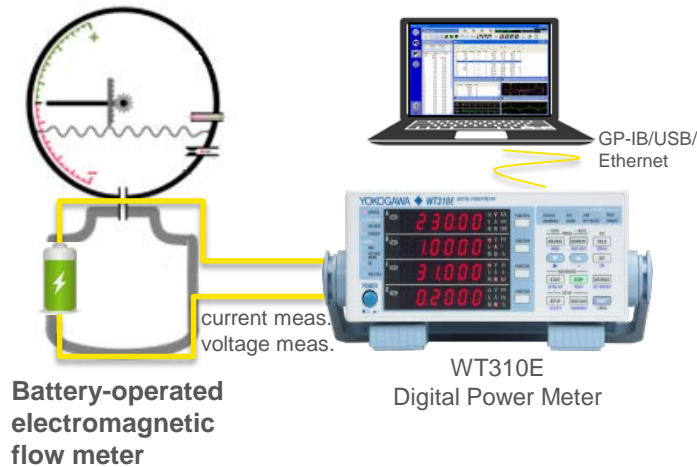
## Measurement of small current (mA) with high accuracy

Centering on the infrastructure of waterworks in emerging countries where the situation of power supply is poor, there is a growing need for more accurate flow monitoring for the purpose of improving the rate of water leakage. The electromagnetic flow meter is more accurate than other types of flow meters such as mechanical type, and it is highly reliable because it has no moving parts in its measurement pipe. However, since the electromagnetic flow meter requires an external power supply and depends on the wiring cost and the infrastructure development in emerging countries, it is not used as much as the mechanical flow meter.

Therefore, a battery-operated electromagnetic flow meter that can operate 10 or more years only on its internal battery and is as accurate as a general electromagnetic flow meter is expected to be adopted.

The WT310E Digital Power Meter has 5 mA range for small current measurement (display resolution of 5.0000 mA), which allows measuring small current value of a device with battery and power of 1 mW or lower with high accuracy. Since the WT310E is capable of measuring Ah and Wh, it is very useful for evaluation of the battery life.

### Example of power measurement with WT310E



### Software for data collection (Free)



Data collection screen of the **WTVIEWERFreePlus**  
(Measurement starts when the arrow displayed at the top of the screen is clicked.)

Please use the PX8000 if you want to view details of the variation of current waveforms or measure power with high accuracy.



Small current can be measured by inputting current directly.

