

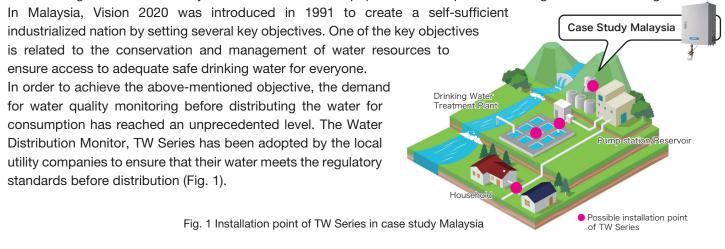
HORIBA

Monitoring drinking water quality by Water Distribution Monitor TW Series

Case study of remote monitoring/operation at water tower in Selangor State, Malaysia March 2021

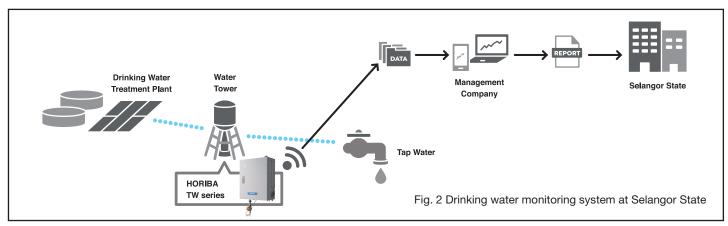
Overview

According to the World Health Organization, 2.2 billion people across the globe do not have access to clean drinking water as of 2019. This alarming figure accounts to almost one-third of the world population. The increase in demand for safe drinking water as a corollary of the increase in world population could pose a challenge for water shortage.



2 Case Study Malaysia

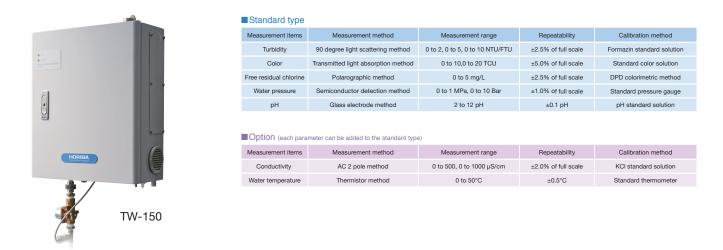
In 2018, Selangor State, near Kuala Lumpur, the capital city of Malaysia, began using HORIBA TW series for drinking water monitoring, and the number of units is expected to increase to 190 units by the end of 2021. In this application, TW Series was used in a distinctive way. With the help of local system integrator, Selangor State had upgraded the TW Series to enable real time data monitoring via IOT web (Fig. 2). They had developed a software for "live" data monitoring so that TW's measurement data, which monitors water quality supply prior to distribution at the water supply station, can be checked remotely at any time on a PC or smartphone.



The above-mentioned data telemetry system allows operator to monitor the real time water quality data remotely. As a result, operators are not required to visit the site physically to download the measurement data. This revolutionary method of water quality management has been highly evaluated, and about 150 additional units will be delivered to the state in the near future.

Product information

HORIBA Water Distribution Monitor TW Series is a compact water quality measurement system designed for drinking water and water distribution plants. This compact system is equipped with built-in sensors to monitor five water quality parameters. Optional sensors can be added to monitor as many as seven water quality parameters. No reagents are required for measurement, which could help reduce running cost. Focusing on user-fiendishness, we have designed the operations to be simple with the use of touch panel. Maintenance can also be performed without the need of special tools.



References

World Health Organization[WHO] (2019), '1 in 3 people globally do not have access to safe drinking water – UNICEF, WHO', https://www.who.int/news/item/18-06-2019-1-in-3-people-globally-do-not-have-access-to-safe-drinking-water-unicef-who

Le, H & Thierry, F (2001), The FAO-ESCAP Pilot Project on National Water Visions - From Vision to Action - A Synthesis of Experiences in Southeast Asia, http://www.fao.org/3/ab776e/ab776e02.htm

H,R & M, R (2019), 'What share of people have access to safe drinking water?', Our World in Data, https://ourworldindata.org/water-access#how-many-people-do-not-have-access-to-safe-drinking-water



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