WSI Indonesia helps I Ngurah Rai International Airport gain accurate reservoir level measurement with IMP.

Water level management and usage is a significant part of an airport's daily life - from stormwater management and runoff monitoring to usage for HVAC operations and of course facilities in the airport, such as toilets and washrooms, etc.

Managing stormwater quality and quantity is an essential part of airport operations, and it is required to have sufficient runoff systems to handle rainfall to reduce flooding events and minimize pollution effects on the local environment. Runoff such as fuel for aircraft and other vehicles, deicers, and anti-icers that are used on runway surfaces all contribute to the water pollution that we see from airports.

Most airports have wastewater facilities on-site, holding reservoirs for stormwater runoff, etc. As is the case with the I Ngurah Rai International Airport located in Bali. The I Ngurah Rai is the second busiest airport in Indonesia and has seen significant development since the 2000s.

The Application

The maintenance team from the I Ngurah Rai airport were having trouble gaining accurate level measurement for their water reservoirs located at the airport. So they reached out to WSI Indonesia, a local Pulsar Measurement distributor.

Upon first investigation of the application, it was noted that the airport already had one of Pulsar Measurement's IMP 3 units installed, but it was struggling to gain an accurate reading. This was giving the airport some problems in so much as it was difficult to manage the pump operation for the reservoir and they were experiencing some overflow issues.

After some digging around, it was discovered that the reservoir was 6 m deep, which was an inappropriate depth for the IMP 3. Since the IMP 3 has a measurement range of 3 m, WSI decided to replace the existing IMP 3 with an IMP 6. This proved to cope with the measurement depth much better as the IMP 6 has a measurement range of 6 m and can provide the accurate reservoir level readings the airport

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The IMP Level Sensor Series

The IMP range of non-contacting level sensors from Pulsar Measurement are designed to be used wherever you need an accurate and reliable level indication. The unique echo processing techniques featured in the IMP range of level sensors are perfect for slurries, liquids, or anywhere where you need a display giving you a level indication or output to interface with your existing sit control system or to drive a display.

There are several measurements ranges available from 200 mm to 10 m (7.9 in – 32.8 ft) and each sensor can be wired for 2 or 3 wire-operation. All IMP options feature an LCD display and digital temperature measurement and compensation. When the IMP level sensors are combined with Pulsar Measurement's PC Suite 4.0, users can download, analyze, and store echo profiles, set up the sensor parameters, install new firmware, and add a flow curve to configure level to flow linearization.

For more information on our IMP range of level sensors, visit our website.

More Information

IMP Level Sensors: www.pulsarmeasurement.com/imp

Partner Locator: www.pulsarmeasurement.com/partnerlocator

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of global partners all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia, allows us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

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