

measure bulletin

Newsletter for the customers of Labkotec Oy

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The Trident level measurement system is currently used by Väinö Paunu Oy in Tampere, among others.

Level measurement can be a matter of one millimetre

Level measurement is usually needed when industrial fluids are delivered in packages that are not of even quantity or when the level needs to be monitored for safety reasons. The accuracy requirements for level measurements become more pronounced the more valuable the product held in inventory is.

Oil products have traditionally been perceived as belonging to this group. An additional challenge for these products is how to make use of the measurement results in the development of business operations. Labkotec's most recent answer to this challenge is the Trident level monitoring system provided with state-of-the-art features.

Trident features a 7" touch screen as standard accessory that can be used for simultaneously monitoring the product level and condensed water volume of up to 16 tanks. The temperature value can also be measured separately for each tank.

"The height of the tank being monitored can be as much as 21 metres. Typical liquids being measured include different petrol and diesel grades and other fuel grades on the market. Trident is a natural continuation to our existing line of level measurement products.

This novelty definitely ranks in the 'de luxe section' of our product range, which makes it suitable for those to whom the accuracy of even one millimetre provides an essential benefit," says **Kari Kananen**, Product Manager in charge of Trident at Labkotec.

He points out that Trident is not a device separate from the rest of Labkotec's offerings, but as a single product forms part of the LabkoMax/Flex- and Labko 3000 level measurement systems previously placed on the market by the company.

"Like our other level measurement products, Trident is aimed both for the domestic market and for export. What separates Trident from the previous systems is that its software is Linux-based. The measuring technology used in connection with Trident can be based on capacitive or magnetostrictive technology," says Kananen.

Compatible with the LabkoNet® web service

Trident is LabkoNet® compatible the same way as Labkotec's previous level measurement systems of a similar type. Trident's advantage over the previous systems is that it features a direct data transmission connection to the LabkoNet® system without a separate communications device. This provides significant cost savings in certain applications.

"The data will be provided in real time both to the client and, if so agreed, to our control room and where necessary also to the contract partner that supplies inventory products to the client. This makes it possible to forward product inventory volume alarms, for example, to those concerned. This is important when oil transports and their proper timing are planned, among other things," Kari Kananen points out.

The Tampere-based bus company Väinö Paunu Oy was among the first to put Trident to use at the end of 2014.

CFO **Juha Mustonen** from Paunu says that the commissioning of the system went very smoothly.

"This is thanks to Labkotec's professional skill and to the fact that they kept us well-informed of the progress of the project and its different stages. Following the commissioning of the new level monitoring system, we have been able to obtain clear benefits in the planning of deliveries and in the placing of orders, for example. Important financial benefits can also be obtained when the amount of fuel in the tank can be optimised to the correct level – the fuel must not run out, but financially speaking there should not be too much of it in the tank either."