



# Quality control in readymix transit

**A** **FIRST-OF-ITS-KIND** moisture measurement system that combines Bluetooth, GSM, Windows, smartphone and microwave technology has now been made available in the local market, exclusively by a leading concrete equipment, machinery and technology supplier in Africa.

The FL-MOBI-MIC Inspector, developed by Germany-based moisture control expert Ludwig Moisture Control, and distributed in Africa by Pan Mixers South Africa (PMSA) utilises a combination of advanced technology that secures the technical status of readymix concrete in transit – from the supplier’s batch plant, to handover or delivery on site.

PMSA sales and marketing manager Quintin Booyesen notes that the system consists of a microwave moisture measuring probe and a consistency measuring bar with a transmission unit mounted on the truck’s

rotating drum, which communicates via Bluetooth to a receiver module in the cab.

“This signal is then forwarded on the GSM network via a Windows-based smartphone or compatible device, thereby enabling the data to be available in almost any location. What’s more, an industrial standard for the Bluetooth connection ensures reliable data transfer at long range, even under challenging conditions, which is particularly important in the harsh African environment,” he states.

In addition to the transmission of product moisture data, the FL-MOBI-MIC Inspector system also sends other crucial process parameters for real-time monitoring. These include product temperature, consistency, slump, residual water, filling level, rotating direction and the speed of the mixing drum. This ultimately puts the supplier in full control and able to monitor the concrete while in transit, for the first time. **3S**



**FIGURE 1** FL-MOBI MIC. Wireless moisture monitoring