



New wireless moisture measurement system improves concrete quality and control



Ready Mix truck fitted with Mobimic Slimline moisture meter with external receiver.

Local pre-cast concrete manufacturers and concrete ready-mix supply and delivery companies can ensure that their concrete is produced to the highest standards of quality, by making use of advanced wireless moisture measurement technology developed by German-based moisture control expert, Ludwig Moisture Control.

The state-of-the-art Ludwig FL-Mobimic SlimLine microwave moisture measuring system and wireless Bluetooth transmission system consists of a microwave moisture measuring probe with integrated temperature sensor, transmitting unit and a receiver module.

The system was developed in-house by Ludwig in mid-2012, and is exclusively distributed in the local market through Pan Mixers South Africa (PMSA) – the largest supplier of concrete brick, block and paving-making machinery and technology in Africa.

Ludwig Moisture Control managing director Manfred Ludwig was one of PMSA's international guests at the 2013 bauma Africa Trade Fair in September, who was on-hand at the company's display stand to provide visitors with the opportunity to obtain expert advice and insight, while showcasing the latest advancements that the Mobimic SlimLine wireless moisture measuring system has to offer.

He says: "As the smallest microwave moisture probe of its kind, Mobimic SlimLine, is a new generation of wireless measuring. With a height of just 29mm and a diameter of 75mm, the probe can be placed effortlessly into confined spaces. This breakthrough in design enables precise humidity

monitoring in process flows – an advancement that was previously impossible with wired sensors."

Ludwig points out that the data captured from the probe is transmitted by means of an industrial grade Bluetooth connection. "The combination of the probe with a transmitting and receiving unit means that the Mobimic SlimLine can be used in stationary mixers with a rotating mixing drum, ready-mix

trucks and moving bulk containers. What's more, it can also be used in drying and mixing processes."

According to Ludwig, a major challenge in moisture control is the fact that end users are often unaware of the exact amount of water content in the aggregates. "Accurately controlling the water and moisture content ultimately ensures energy savings, increased productivity

and an improvement in the quality of concrete products ranging from concrete bricks and blocks, to roof tiles,

pipes as well as delivery trucks," he adds.

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