

PRODUCTS & SERVICES

Ensuring the optimal water:cement ratio of precast concrete products



The FL-Mobi Mic Profi-Check is supplied in a handy and compact carry-case including charger and tablet.



Manfred Ludwig is managing director of Ludwig Moisture Control of Germany represented locally by PMSA.

Checking the aggregate moisture content before making concrete on site is now a cinch with a new handheld device for convenient on-site batch testing now available from PMSA.

Quality control is a critical factor in the manufacture of concrete products, and responding to this need for reliable testing, German company Ludwig Moisture Control has now developed the FL-Mobi Mic Profi-Check.

This testing device is used to accurately determine the moisture content and temperature of a specific aggregate before batching, during the mixing cycle and after discharge of the mixed concrete. Key to the device's versatility is that it can be used in several places during the process.

"The exact moisture values can be determined rapidly and exactly upon delivery of the raw materials," says Manfred Ludwig, MD of Ludwig Moisture Control. "In addition, it delivers valuable and measurable results on the water:cement ratio and temperature during production of no-slump or plastic concretes in the plant, laboratory or construction site."

The measuring head of the FL-Mobi Mic Profi-Check is manufactured from high-quality stainless steel. It is designed for easy insertion and/or penetration into the aggregate or concrete being measured. The moisture measuring probe, protected by a ceramic coating, is also integrated into the measuring head itself.

The measuring head is connected to the evaluation and transmission part of the device by a 250-mm-long V2A connecting cable. The robust IP65 die-cast housing protects the measuring head from mechanical wear. An adjustable carry handle attached to the housing facilitates simple insertion and replacement of the measuring unit if need be.

Ludwig explains that the tried-and-tested microwave technology used in the device is based on the 433 MHz frequency. Major design criteria were user-friendliness and compactness. "This makes the FL-Mobi Mic Profi-Check highly suited to emerging contractors who wish to guarantee the quality of their precast products, but who do not yet have the necessary capital to invest in major moisture control systems."

The device forms part of a comprehensive suite of concrete production technology available locally from PMSA, the largest manufacturer of concrete brick, block and paving machinery on the African continent. ■

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About Pan Mixers South Africa (PMSA)

Celebrating its 40th anniversary this year, PMSA is a leading manufacturer of a wide range of concrete block, brick and paving machinery, turbine and counter-current pan mixers and batching plants for the concrete, refractory and ceramic industries. PMSA brick-making machinery produces two million bricks a day in the Johannesburg area alone.