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Product Name :

Wet Cement/Concrete Moisture Meter

Product Code :

SLE/CE/44



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Description :

Wet Cement/Concrete Moisture Meter (Product Code: SLE/CE/44) is a microwave moisture meter used to measure the moisture content of wet concrete by sensing its complex dielectric constant through a prong probe, in concrete laboratories and quality-control work. Two unitscover the water/cement ratios found in wet concrete: the two-prong Type R for approximately0.35 to 0.65, and a five-prong version for low ratios of approximately 0.25 to 0.5. It ismanufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Measuring principle	Microwave sensing of the complex dielectric constant of material in contact with the prongs
Display	Integrated microprocessor; moisture content displayed directly
Type R	Two-prong probe; normal water/cement ratios, approx. 0.35 to 0.65
Low-ratio unit	Five-prong probe; low water/cement ratios, approx. 0.25 to 0.5
Pre-set calibration	Standard Type I, II and III cements
User programs	Up to ten different mix designs; created with a built-in calibration process, no external computing device needed
Readings per test	An average of five to ten readings is normally taken
Memory	Over 150 readings, stored with time and date
Data transfer	USB interface to a personal computer running the meter software
Application	Fresh wet cement, concrete and mortar
Product code	SLE/CE/44
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is a Wet Cement/Concrete Moisture Meter Used For?

The water content of fresh concrete governs its strength and durability, yet it can drift from the design through wet aggregates or added water at the mixer. Because the dielectric constant of water is four to eight times greater than that of most aggregates and cements, changes in water content directly affect the sensor output. The meter converts that output with its microprocessor and shows the moisture reading at once, so a batch can be checked before it is placed.

Insert the probe fully into a representative sample and take five to ten readings to obtain a valid average. For the highest accuracy, program the unit for the materials you actually use; the calibration routine creates these user programs on the meter itself. Stored readings, complete with time and date, can later be downloaded over USB for records. It is a useful moisture meter for any concrete laboratory looking to tighten mix control.

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