



MC3 ELITE™

advanced with innovative features – the cutting edge of simplicity

InstroTek's MC3 Elite™ is an advanced, yet easy to operate moisture density gauge designed for all operators ranging from new technicians to those with advanced density testing experience. The MC3 Elite is the result of over 40 years of testing experience, and is constructed to withstand rugged, construction testing environments. It features a simple operator interface, NEW large backlit LCD display, illuminated keypad, precision machined base and is designed with reliable, surface-mount electronics. All InstroTek / CPN gauges are backed by unmatched reliability, technical support and low maintenance costs.

The MC3 Elite is loaded with simple, user friendly functions. Density, moisture and other required field parameters are automatically calculated and displayed and can be stored under specific user-designed projects. The data can be easily downloaded to a computer, printer or written to a USB flash drive. The gauge is equipped with a reliable, non-contact magnetic depth indicator and state-of-the-art moisture resistant electronics. The battery pack is designed to provide weeks of operation and is integrated with a 9V battery for backup. The mechanical design includes a machined, aluminum base and a rugged, polycarbonate topshell designed to withstand the demands of the toughest construction and testing environments.

- ▶ **NEW!** Backlit 4 x 20 LCD display with 9mm characters for maximum visibility
- ▶ User friendly software
- ▶ Precision machined base and components
- ▶ High reliability, updated and improved electronic design
- ▶ Illuminated keypad
- ▶ USB flash drive storage for cable-free data download
- ▶ Superior, durable polycarbonate topshell design
- ▶ Industry's BEST warranty



MC3 ELITE™

Specifications

Standards	ASTM D6938, D2950, D7013, D7759, C1040 and AASHTO T310
Density Measurement Range	70 to 170 pcf (1.120 to 2.73 gcc)
Moisture Measurement Range	0 to 40 pcf (0 to 0.64 gcc)
Density Source	Cesium 137
Moisture Source	Americium 241: Beryllium
Density Source Activity	Maximum (10 mCi) 370 Mbq
Moisture Source Activity	Maximum (50 mCi) 1.85 GBq
PRECISION	
BS one-minute test	±0.50 pcf (0.008 gcc)(at 125 pcf)
Transmission one-minute test	±0.25 pcf (0.004 gcc)(at 125 pcf)
Moisture one-minute test	±0.25 pcf (0.004 gcc)(at 10 pcf)
CHEMICAL COMPOSITION ERROR	
Backscatter	±1.00 pcf (0.016 gcc)
Transmission	±0.75 pcf (0.012 gcc)
SURFACE ROUGHNESS ERROR (0.05 in. 100% void)	
Backscatter	- 4.00 pcf (0.064 gcc)
Transmission	- 0.50 pcf (0.008 gcc)
OPERATING TEMPERATURE	
Ambient	- 14° to 167°F (-10° to 75°C)
Surface	Up to 350°F (175°C)
Power Source	6-Cell AA NiMH battery pack with a single 9V alkaline for backup
Battery Life	500-1000 recharge/discharge cycles
Display	Large 4 line X 20 character LCD display with 9mm tall characters
Memory Storage	10 Projects with 40 readings each
Gauge Size	26.7" H X 14.1" W X 9.8" D (67.8 x 35.8 x 24.8cm)
Weight	28.5 lbs (13 kg)
Shipping Weight	90 lbs (40.82 kg)



Service and Maintenance:

We offer calibration and maintenance services. Contact our specialists for more information!

Manufacturer: Instron Inc.

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Konkoly-Thege Miklós út 29-33., H-1121 Budapest,
distribution@izotop.hu | www.izotop.hu

