

# MC1 ELITE™ | lightweight, rugged, reliable

The MC1 Elite™ by InstronTek®, is the most accurate, operator friendly moisture / density gauge on the market. The MC1 Elite offers a superior alternative to other methods of in-place testing. Results are displayed on a NEW, easy to read LCD screen and improved software allows technicians to navigate through additional screens quickly and efficiently.

The MC1 Elite is built for the rugged construction industry and has been upgraded with a precision, machined base which increases durability and produces more consistent results. Electronic components have also been upgraded with surface mount technology, increasing reliability and improving resistance to moisture damage. The polycarbonate topshell design makes the MC1 Elite the lightest gauge available on the market.

All InstronTek / CPN gauges come standard with a 2-year limited warranty, a free calibration at the one-year mark and are backed with unmatched customer and technical service.



## MC1 ELITE™

### An advanced gauge with improved functions:

- ▶ **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
- ▶ Surface mount component technology
- ▶ Superior, durable polycarbonate topshell design
- ▶ Industry's BEST warranty



innovators in instrumentation technology

### 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
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)

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