

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.



MC3 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
- ▶ Illuminated keypad
- ▶ USB flash drive storage for cable-free data download
- ▶ Superior, durable polycarbonate topshell design
- ▶ Industry's BEST warranty

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) |



innovators in instrumentation technology