

MC-3 Elite Nuclear Moisture Density Gauge

Engineered to withstand the demands of the toughest construction and testing environments, InstroTek's MC-3 Elite Nuclear Moisture Density Gauge incorporates a rugged polycarbonate shell with a machined aluminum base. Designed with simple, user friendly functions, the MC-3 Elite automatically calculates and displays density, moisture and other required field parameters. Additionally, onboard memory and USB port allow for easy storage and transfer of recorded data.



Features

- Large backlit LCD display
- Illuminated keypad
- Easy-to-use Software
- USB port facilitating data transfer to computer, printer or USB flash drive
- Onboard data storage for 10 projects (40 readings each)



Specifications

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



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