

MC-3 Portaprobe | most rugged gauge in the industry

RUGGED AND INTELLIGENT WITH ADVANCED ELECTRONICS

MC-3 Portaprobe Nuclear Moisture/Density Gauge has maintained its reputation as the most rugged, accurate, low maintenance and easy to operate gauge for over 30 years. The gauge electronics and LCD display have recently been updated for improved reliability and performance.

The gauge LCD has been changed to a large sunlight readable high resolution LCD with 120° viewing angle. Now you can easily read and navigate through the intelligent display instructions. The scalar and baseboard electronics of the gauge have been redesigned with surface mount components for better reliability and resistance to environmental humidity and moisture damage.

With computer interface capability, data storage features and all aluminum casing, MC-3 continues to be the most advanced, most reliable and most rugged gauge in the construction industry.



FEATURES:

- ▶ Large NEW sunlight readable high resolution LCD display with 120° viewing angle
- ▶ Surface mount electronics for improved reliability and resistance to humidity and moisture damage
- ▶ NiCad batteries with intelligent charging circuit (Alkaline batteries optional)
- ▶ 200 test storage capability, including data transfer to computer and printer
- ▶ Automatic Non-contact Depth Sensing
- ▶ Thinlift overlay, density offset, moisture offset and Trench wall offset modes
- ▶ Self Calibration program
- ▶ Real time clock and calendar
- ▶ Rugged all aluminum casing
- ▶ 24 month warranty

CPN® MC-3 Portaprobe

SPECIFICATIONS

Standards	ASTM D6938, D2950 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	(10 mCi) 370 Mbq
Moisture Source Activity	(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 ERROR	
Backscatter	±1.00 pcf (0.016 gcc)
Transmission	±0.75 pcf (0.012 gcc)
ROUGHNESS ERROR (0.05 in. 100% void)	
Backscatter	- 4.00 pcf (0.064 gcc)
Transmission	- 0.50 pcf (0.008 gcc)
Operating Temperature	32° to 167° F (0° to 75° C)
Power Source	8 welded AA NICADS
Battery Life	500-1000 recharge/discharge cycles.
Display	160 character 10 x 20 dot LCD
Memory Storage	200 readings of information
Gauge Size	22.8" X W 14.1" X D 9.4"
Weight	31.20 lbs (14.15 kg)
Shipping Weight	79.10 lbs (35.87 kg)

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