

PETROLEUM COLORIMETER



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BOHEMIA, NEW YORK • HOUSTON, TEXAS

PETROLEUM COLORIMETER

AC 100 – Petroleum Colorimeter

The K13270 utilizes reference beam technology to measure the four most important color scales used for liquid chemicals, resins, oils, fuels, and fats for liquid color measurement. The unit provides high precision photometric color measurements that are objective, accurate and consistent over a wide variety of samples required for quality control programs. The 7 inch TFT WVGA Color Graphic Touch Screen measures wavelengths from 380nm to 720nm and has the ability to store up to 400 color readings.

Specifications

Conforms to the specifications of: ASTM D156, D1544, D1209, DIN 6162

Data log for 400 color measurements

USB- Ports: 2 x Type A, 1 x Type B and 1 EtherNet

Automatic Cell Recognition

Automatic Wavelength Calibration

16 Language Options

Beam Height: 10 mm

Data Storage: 400 color readings

Interface: 2 x USB Type A, 1 x USB Type B, 1 x EtherNet

Max. Storage Humidity: 80%

Max. Operating Humidity: 80%

Operating Temperature Range: 10 to 40°C

Optical Path Length: 10 mm - 50 mm

Optical System: 0° / 180° rectilinear

Photometric Accuracy: 1% at 0.5 to 2.0 Abs, 0.005 Abs at 0 to 0.5 Abs

Photometric Linearity: < 0.5 % to 2 Abs, 1% with neutral glass at 546 nm

Photometric Measuring Range: ± 3.0 Abs (wavelength range 340-900 nm)

Reproducibility: ± 0.2 % transmission

Spectral Bandwidth: 5 nm

Standard Illuminant: C

Standard Observer: 2°

Wavelength Accuracy: ± 1.5 nm

Wavelength Calibration: automatic

Wavelength Range: 380 nm to 720 nm

Wavelength Reproducibility: 0.1 nm

Color Ranges

Iodine Color (DIN 6162)

Hazen Color, APHA Pt/ Co Color (ASTM D1209, D5386, ISO 6271)

Gardner Color (ASTM D1544, ISO 4630)

Saybolt Color (ASTM D156)

Dimensions (H x W x D)

15.1x35.0x25.5cm (5.94x13.87x10.04in)

Net Weight: 4.20 kg (9.26lbs)

Electrical Requirements ☼☼

100-240V / 50-60Hz

Output: 15V/40 VA



K13270 Petroleum Colorimeter

Ordering Information

Catalog No.

K13270 AC 100 Petroleum Colorimeter

Accessories

K13356 Rack for (7) 50 x 10 Cuvettes

K13253 Color Calibration Standards

K13353 Disposable Plastic Cuvettes 50 x 10
(50 pieces) (for lighter, samples)

K13351 Disposable Optically Clear Cuvettes, 11mm
(490 pieces), Cylindrical (for darker colored samples)

K13250-1 Cuvette- Glass 50x10mm
(Recommended for gasoline samples)

K13270-1 USB Memory Stick
(Note: other sticks not recommended due to possible incompatibility)

K13270-2 Protective Film for Touch Screen Display

K13270-6 Dust Cover

K13270-16 Online Data, Including USB PC Interface Cable 1.8m

K13270-17 USB-Interface Cable (1m) (Replacement)



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