

# PETROLEUM COLORIMETER



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## 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

<b>Catalog No.</b>	
<b>K13270</b>	AC 100 Petroleum Colorimeter
	<b>Accessories</b>
<b>K13356</b>	Rack for (7) 50 x 10 Cuvettes
<b>K13253</b>	Color Calibration Standards
<b>K13353</b>	Disposable Plastic Cuvettes 50 x 10 (50 pieces) (for lighter, samples)
<b>K13351</b>	Disposable Optically Clear Cuvettes, 11mm (490 pieces), Cylindrical (for darker colored samples)
<b>K13250-1</b>	Cuvette- Glass 50x10mm (Recommended for gasoline samples)
<b>K13270-1</b>	USB Memory Stick (Note: other sticks not recommended due to possible incompatibility)
<b>K13270-2</b>	Protective Film for Touch Screen Display
<b>K13270-6</b>	Dust Cover
<b>K13270-16</b>	Online Data, Including USB PC Interface Cable 1.8m
<b>K13270-17</b>	USB-Interface Cable (1m) (Replacement)