

# Automatic Density Meter

## Test Method

Density is a fundamental physical property that can be used in conjunction with other properties to characterize the quality of crude oils, light and heavy fractions of petroleum and petroleum products. The test method covers the determination of the density or relative density of crude oils, petroleum distillates and viscous oils that can be handled in a normal fashion as liquids at test temperatures between 15 and 35°C.

## Specifications

Conforms to the specifications of:

ASTM D1250, D4052, D5002, D5931; ISO 12185  
DIN 51757

Measurement Ranges:

Density: 0 to 3 g/cm<sup>3</sup>

Temperature: 0°C to 95°C

Pressure: 0 to 10 bars

Measurement Modes: Continuous, Single, Multiple

Accuracy:

K86200: Density: 0.00005 g/cm<sup>3</sup>  
Temperature: 0.03 °C

K86201: Density: 0.0001 g/cm<sup>3</sup>  
Temperature: 0.05 °C

Repeatability:

K86200: Density: 0.00001 g/cm<sup>3</sup>  
Temperature: 0.01 °C

K86201: Density: 0.00005 g/cm<sup>3</sup>  
Temperature: 0.02°C

Resolution:

K86200: Density: 0.00001 g/cm<sup>3</sup>  
Temperature: 0.01°C

K86201: Density: 0.0001 g/cm<sup>3</sup>  
Temperature: 0.01°C

Minimum Sample Volume: 1 ml, approximately  
Wetted Materials: Borosilicate glass, Teflon (PTFE, ECTFE)

Display: 10.4 inch diagonal, 800-600 pixels, color, Flat Panel Monitor with Resistant Touch Screen Interface, 200 bit brightness, gasketed for spill protection.

Communication Interface:

Touch Screen User Interface

5 – USB Ports

1 – Cat. 5 Port

2 – RS232 Ports

Keyboard, Bar Code Scanner,

Mouse, Network Capabilities

Video and Magnification: Video assisted view of cell, capable of approximately 10X magnification

Internal Memory: 2 GB Non-removable Compact Flash

Electrical Requirements: **CE**

85 to 260 VAC; 48 to 62 Hz 150- 200 Watts



**Dimensions** l x w x h, cm

91.44cm (L) x 48.26 cm (W) x 45.72 cm (H)

**Shipping Information**

Shipping Weight: 70 lbs. (31.75 kg)

## Ordering Information

**Catalog No.**

**K86200** Automatic Density Meter, Model A

**K86201** Automatic Density Meter, Model B

### Accessories

**K86202** 21 CFR Part 11 Option

**K86203** Refractometer Control Module

**K86204** Heated Interface Attachment

**K86206** Bar Code Scanner - USB

**K86207** Fluke Hart Thermometer  
*Consists of handheld digital thermometer, temperature probe and calibration certificate*

**K86208** Inkjet USD Printer Kit  
*Includes inkjet printer and USB communication cable*

**K86209** Laser USB Printer Kit  
*Includes laser printer and USB communication cable*

**K86210** 40 Column Serial Printer Kit  
*Includes 40 Column Serial (RS232) Printer, Null Modern Cable, and Adapter*



1595 SYCAMORE AVENUE • BOHEMIA, NEW YORK 11716-1796  
1-800-878-9070 (IN U.S. ONLY) • TEL: +1 631 589 3800 • FAX: +1 631 589 3815  
www.koehlerinstrument.com • Email: sales@koehlerinstrument.com

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