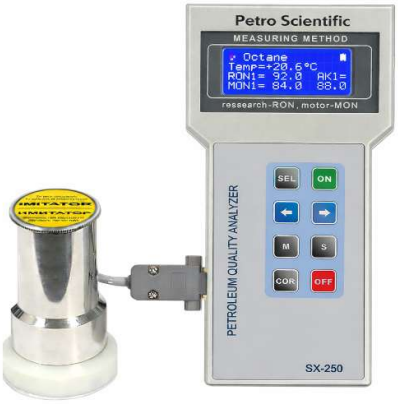
PETRO SCIENTIFIC LLC

RON/MON/Cetane Analyzer



PETRO SCIENTIFIC SX-250

Petro Scientific New oil products grade analyzer is manufactured on the basis of advanced high precision microprocessor. Petro Scientific SX-250 is designed for the operation with fuels and oils. It continues the series "2xx" (fuel and oil quality analysis). Additionally, SX-250 has the mode for determining the purity of mineral and synthetic oils, the mode for measuring dielectric permeability of oil products, as well as the mode for determining water content in diesel.

The instrument can be used together with a PC or laptop through USB interface. Analyzer uses automatic computer-based calibration, saving measured data in the instrument memory with analysis date and time followed by their transfer to the PC (in Microsoft Excel or txt format). The instrument has easy of control attrition and aggressive environments resistive 8-key antiglare keyboard. The instrument uses the timer microchip, which allows storing measurement results with analysis date and time. These data can also be transmitted to the computer.

Instrument capabilities:

- **Gasoline Octane level in compliance with ASTM D 2699-86, ASTM D 2700-86.**
- **Diesel fuel Cetane level in compliance with ASTM D 4737-03, ASTM D 613, EN ISO 5165.**
- **Diesel fuel type and cold filter plugging point (CFPP) (reference parameter).**
- **Kerosene percentage in diesel fuel (reference parameter).**
- **Gasoline breakdown time (oxidation stability) (reference parameter).**
- **Purity level of motor oil (reference parameter).**
- **Dielectric permeability of oil products (Eps).**
- **Water percentage in diesel (reference parameter).**
- **Comes with Lithium-Ion Rechargeable Batteries for long term operational analysis**

Delivery Package:

- **Electronic computing module**
- **Sensor #1**
- **Sample imitator**
- **Mini-USB cable**
- **Operations manual**
- **Quick start guide**
- **Warranty certificate**
- **Tool canvas bag**

PETRO SCIENTIFIC SX 250
Product Parameter Description

Parameter Description	Measurement Units	Value
“RON” Range of measured Gasoline Octane level	ON	40–135
Acceptable limit of Octane number measurement basic error, max	ON	±0.5
Limit of acceptable difference between parallel Octane number measurements, max	ON	±0.2
Petrol oxidation breakdown time measurement range	min	50–2400
Acceptable basic error limit of Petrol oxidation breakdown time	min	10
“Cetane” Range of measured Cetane level	CN	20–100
Acceptable basic error limit of Cetane numbers, max	CN	±1.0
Acceptable difference limit between Cetane numbers parallel measurements, max	CN	±0.5
Acceptable error limit when determining diesel-fuel pour point	°C	±5
Kerosene content determination range in diesel fuels	%	0–95
Acceptable basic error limit when determining Kerosene content in diesel fuels	%	±3
“MON” Range of measured purity of Motor Oils	%	95–100
Acceptable basic error limit when determining purity of Motor oils	%	±0.01
Range of measured dielectric permeability of oil products	Units	1–5
Range of measured water content in diesel	%	0–4
Acceptable basic error limit when determining water content in diesel	%	±0.01
Measurement time	sec	1–5
Insufficient power supply indication operation threshold	V	5.4
Instrument useful life (minimum)	Years	6
Overall dimensions – Electronic module	mm	211 × 100 × 45
Sensor 1	mm	60 × 100
Instrument Mass with a sensor	gr	680

Petro Scientific LLC
74-S, Virginia Ave, Penns Grove, NJ 08069
USA
856-285-1758
info@petro-scientific.com
www.petro-scientific.com