

Technical Specifications

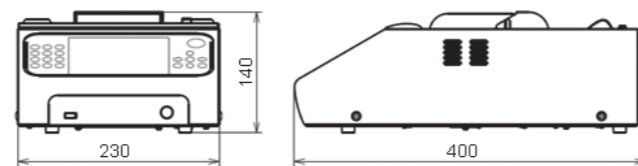
Measurement Specifications	
Measurement principle	Energy Dispersive X-ray Fluorescence Analysis Method (EDXRF)
Measurement sample	Sulfur in Petroleum products such as heavy oil, naphtha, and crude oil, light oil
Measurement range	0 - 9.9999 %
Repeatability	15 ppm or less (with a 1 % sulfur sample)
C/H error correction	± 50 ppm or less per C/H (with a 1 % sulfur sample)
Lower detection limit	15 ppm or less (three times the standard deviation with a 0 % sample)
Number of calibration curves	5 lines x 3 sets (Total 15 lines)
Calibration curve order	Linear or quadratic (both automatic selection and manual settings available)
Calibration	Calibration made using calibration points: (5 - 20 points)
Sample requirement	4 - 10 ml
Measurement time	10 - 600 sec
Spectrum measurement	Energy Axis: 0 - 10 keV, spectrum analysis to verify instrument performances.
External output	USB connect with PC, USB memory

Ambient Conditions	
Temperature	+ 5 °C ~ + 40 °C (+ 41°F ~ + 104°F)
Humidity	80% max relative humidity in temperature range + 5 °C ~ + 30 °C (+ 41°F ~ + 86°F). Linear decrease to 50% relative humidity in temperature range + 31 °C ~ + 40 °C (+ 88°F ~ + 104°F).

Power and Housing	
Power supply	AC 100 - 240 V ± 10 %, 50/60 Hz
Power consumption	80 VA
Dimensions [W x D x H]	230 x 400 x 140 mm (9 x 15.75 x 5.5 in.)
Weight	9 kg (20 lbs.)

Comformity Standards	
ASTM D4294(USA)-ISO 8754-JIS K2541/B7995	

Dimentional Outlines (Unit : mm)



⚠ Please read the operation manual before using this product to assure safe and proper handling of the product.

- The contents of this catalog are subject to change without prior notice, and without any subsequent liability to this company.
- The color of the actual products may differ from the color pictured in this catalog due to printing limitations.
- It is strictly forbidden to copy the content of this catalog in part or in full.
- All brand names, product names and service names in this catalog are trademarks or registered trademarks of their respective companies.
- Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

<http://www.horiba.com> e-mail: info@horiba.co.jp

● **HORIBA, Ltd.**
Head Office
2 Miyano Higashi, Kisshoin
Minami-ku, Kyoto, Japan
Phone: 81 (75) 313-8123
Fax: 81 (75) 321-5725

● **HORIBA (China) Trading Co., Ltd.**
Shanghai Office
Unit D, 1F, Building A, Synnex
International Park, 1068
West Tianshan Road,
Shanghai, 200335 China
Phone: 86 (21) 6289-6060
Fax: 86 (21) 6289-5553

● **Beijing Office**
Room 1801, SK Tower,
Tower 1 No.6 Jia,
Jianguomenwai Ave.,
Chaoyang District, Beijing,
100022 China
Phone: 86 (10) 8567-9966
Fax: 86 (10) 8567-9066

● **Guangzhou Branch**
Room 1611/1612, Goldion
Digital Network Center,
138 Tiyu Road East,
Guangzhou, 510620 China
Phone: 86 (20) 3878-1883
Fax: 86 (20) 3878-1810

● **HORIBA Korea Ltd.**
10, Dogok-Ro, 6-Gil,
Gangnam-Gu, Seoul,
135-860, Korea
Phone: 82 (2) 753-7911
Fax: 82 (2) 756-4972

● **HORIBA Thailand Ltd**
393, 395, 397, 399, 401, 403
Layya Road, Somdetchaopraya
Sub-district Klongsan
District Bangkok 10600
Phone: 66 (2) 861 5995
Fax: 66 (2) 861 5200

● **HORIBA Instruments (Singapore) Pte Ltd.**
Head Office
10, Ubi Crescent #05-12
Lobby B Ubi Techpark
Singapore 408564
Phone: 65 (6) 745-8300
Fax: 65 (6) 745-8155

● **Hanoi Office**
Unit 10, 4 Floor, CMC tower,
Duy Tan Street, Dich Vong
Hau Ward, Cau Giay district,
Hanoi, Vietnam
Phone: 84 (4) 3795-8552
Fax: 84 (4) 3795-8553

● **Jakarta Office**
Menara Bidakara 2 Unit 11-04,
Jl. Jend. Gatot Subroto
Kav. 71-73, Jakarta
Selatan, 12870, Indonesia
Phone: 62 (21) 2906-9419
Fax: 62 (21) 2906-9421

● **HORIBA Instruments Incorporated**
Edison Office
3880 Park Ave.,
Edison, NJ 08820, U.S.A.
Phone: 1(732)494-8660
Fax: 1(732)549-5125

● **Irvine Office**
9755 Research Drive,
Irvine, CA 92618, U.S.A.
Phone: 1 (949) 250-4811
Fax: 1 (949) 250-0924

● **HORIBA India Private Limited**
Delhi Office
246, Okhla Industrial Estate,
Phase 3 New Delhi - 110020,
India
Phone: 91 (11) 4646-5000
Fax: 91 (11) 4646-5020

● **HORIBA JOBIN YVON SAS**
16-18, rue du Canal,
91165 Longjumeau Cedex,
France
Phone: 33 (0) 1 69 74 72 00
Fax: 33 (0) 1 69 09 07 21

● **HORIBA JOBIN YVON GmbH**
Haupt-Str. 1, 82008
Unterhaching, Germany
Phone: 49 (89) 462 3170
Fax: 49 (89) 462 31799

● **HORIBA JOBIN YVON Srl**
Via Cesare Pavese 19/21,
200900 Opera, Mirano, Italy
Phone: 39 (2) 5760 3050
Fax: 39 (2) 5760 0876

● **Spain Branch**
PAE Neisa Norte Ed. II,
Avenida Vadelaparra,
27 / 28108 Alcobendas/
Madrid Spain
Phone: 34 (91) 661 7987
Fax: 34 (91) 661 6658

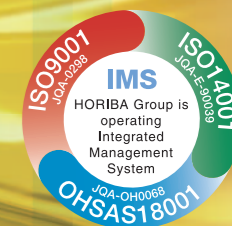
● **HORIBA UK Ltd.**
2 Dalston Gardens, Stanmore,
Middx HA7 1BQ GREAT
BRITAIN UK
Phone: 44 (20) 8204 8142
Fax: 44 (20) 8204 6142

Bulletin:HRE-3937A

072022

Sulfur-in-Oil Analyzer

SLFA-60



SLFA-60 for a new generation of petroleum products

HORIBA introduces the new standard of transportable sulfur-in-oil analyzers, the SLFA-60. This instrument introduces new software and hardware features to meet the growing changes in the petroleum industry. The instrument has expanded storage of calibration curves and data can be exported using USB output. The measurement range has increased to 0-9.9999 wt% to cover high sulfur crudes and shale oil markets.

Simple operation

Easy maintenance

Lightweight

Compact

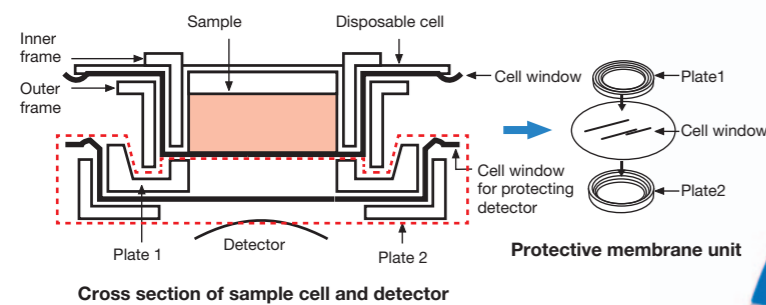
Robust construction

Data output

The printout is available in an 80 mm wide format for easy comprehension.

Safety mechanism

The SLFA-60 has a protective membrane covering the cell window to prevent the detector and X-ray tube from accidental sample leakage. This protective membrane unit is simple to assemble and replace.



Large screen display for easy viewing

The screen will display real-time data to check the measurement conditions.

USB memory

Your measurements can be recorded three different ways; by printout, exported to a USB memory device, or exported to an external PC through a USB interface, making it possible to track and analyze the information throughout the lifetime of the unit.



Measurement Procedure

Pour the sample into the sample cell

Place the sample cell on the sample holder

Set to the measurement condition

Press the "MEAS" button to start the measurement

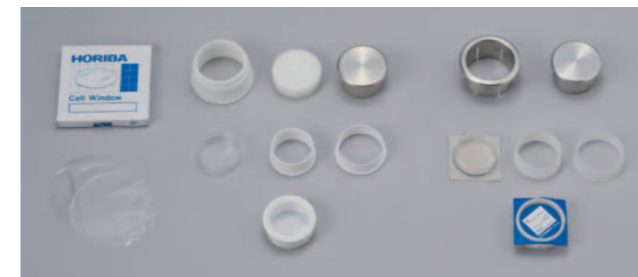
Instrument displays the results and data output

Calibration

New Software features allow up to 15 separate calibration curves. There are three sets and each set represents 5 separate calibration curves. The Software also allows the users to choose between linear or quadratic curves. Calibration curves are restored manually without having to recalibrate as long as coefficients value/calibration data are on hand.

Original Sample Cell

To ensure accuracy and reliability of the analysis, HORIBA has maintained its original sample cell. By using the sample jig tool provided, you can easily seal the sample so that it is leak free.



Expanded Measurement Range (0~9.9999wt%)

This new model can measure a wider range of sulfur content. It has an expanded range to measure from 0-9.9999 wt% sulfur, due to the higher sulfur concentrations of crude and shale oil markets.

Large printouts

Printouts show important information, including sample ID, X-ray spectrum, date and time, measurement average value, standard deviation and calibration curve graph.

