



SLFA-60

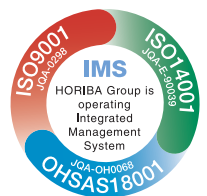


SLFA-6000 Series

Sulfur-in-Oil

SLFA-60/6000 Series

X-ray Fluorescence Sulfur-in-Oil Analyzer



SLFA-60/6000 series for a new generation of petroleum products

Compact & Robust Design

Simple Operation

Safety Features

Wide Sample Range

HORIBA introduces the new standard of sulfur-in-oil analyzers, the SLFA-60 and 6000 series. These instruments feature new software and hardware to meet the growing challenges in the petroleum industry.

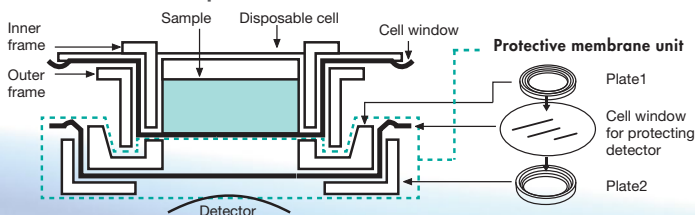


Compact & Robust Design

Secondary Window to Prevent Leakage

Both the SLFA-60 and 6000 series have 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.

Cross section of sample cell and detector

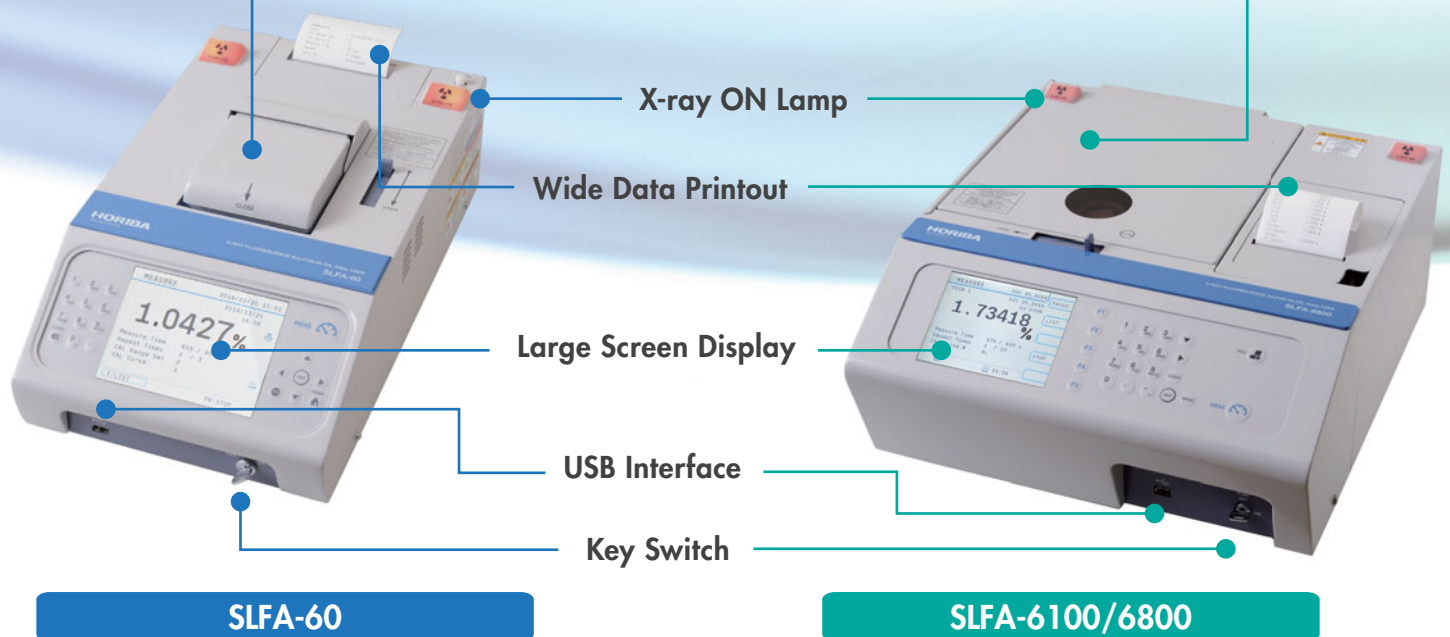


Large Screen Display

The easy viewing monitor screen will display real-time data in ppm or %.

Turntable (SLFA-6800 only)

The turntable equipped with the SLFA-6800 has been newly devised. Newly designed stepper motor is more robust and faster between sampling.



SLFA-60

SLFA-6100/6800

Simple Operation

Measurement Procedure

1. Pour the sample into the sample cell
2. Place the sample cell on the sample holder
3. Set to the measurement condition
4. Press the "MEAS" button to start the measurement
5. Instrument displays the results and data output

Calibration

New software allows the SLFA-60 to store 3 sets of calibration and the SLFA-6000 series 5 sets. It also allows the users to choose between linear or quadratic curves. Calibration curves are restored manually without having to recalibrate as long as the users save the coefficients value/calibration data.

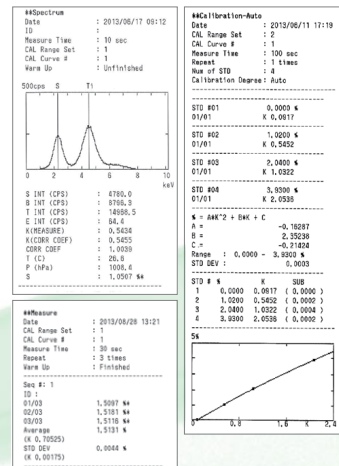
Output Options

Print out, USB memory stick and USB cables connected to PC are available as output options.

* Printer can be switched off if not used.

i) Wide Data Printouts

The users can control the contents/volume of the information on the printouts. There are 3 layout options. Printouts show sample ID, X-ray spectrum, date/time, measurement average value, standard deviation and calibration curve graph etc., on 80 mm wide format for easy viewing.



ii) USB Output

The user can transfer data into USB memory or PC connected with USB cable.



Safety Features

In addition to our thorough X-ray leakage tests at the factory, the SLFA series are equipped with these safety functions:

Key Switch

Only when the key switch is in the "ON" position, X-rays are turned on.



Shield Shutter

Even if the lid is open, X-rays are continuously on. However, the shield shutter covers the X-ray and will prevent leakage that might be emitted.



The shield shutter

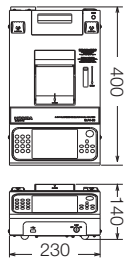
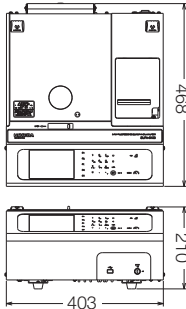
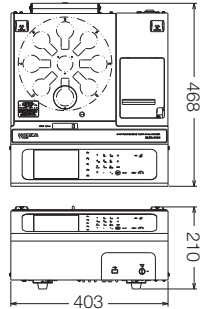
Wide Sample Range

Expanded Measurement Range (0 - 9.9999 wt%)

The SLFA-60 has expanded its range compared to the conventional model, and now both the SLFA-60 and 6000 series can measure from 0 - 9.9999%.



Technical Specifications

	SLFA-60	SLFA-6100	SLFA-6800
Measurement principle	X-ray Fluorescence Analysis Method		
Measurement samples	Sulfur in petroleum products such as heavy oil, naphtha, crude oil and light oil		
Measurement range	0 - 9.9999%		
Repeatability	15 ppm or less with a 1% sulfur sample	5 ppm or less with a 1% sulfur sample, 1.6 ppm or less with a 0% sulfur sample	
C/H error correction	+/- 50 ppm or less per C/H *with a 1% sulfur sample		
Lower detection limit	20 ppm or less *	5 ppm or less *	
Number of calibration curves	Up to 15 calibration curves		
Calibration curve order	Linear or Quadratic (both automatic selection and manual settings are available)		
Amount and number of samples	4 - 10 mL, 1 sample		4 - 10 mL, 8 samples
Measurement time	10 - 600 sec		
Data output	Printout, USB memory stick, USB cable connected to PC		
Spectrum measurement	Energy Range: 0 - 10 keV, spectrum analysis to verify instrument performances		
Operating temperature	+ 5 °C to + 40 °C (+ 41 °F to 104 °F)		
Operating humidity	80% max relative humidity in temperature range + 5 °C to + 30 °C (+ 41 °F to 86 °F) Linear decrease to 50% relative humidity in temperature range + 31 °C to + 40 °C (+ 88 °F to 104 °F)		
Power supply	AC 100 - 240 V +/- 10%, 50/60 Hz		
Power consumption	80 VA	150 VA	
Conformity standard	ASTM D4294 (USA), ISO 8754, JIS K2541/B7995		
Weight	Approx. 9 kg	Approx. 21 kg	Approx. 23 kg
Dimensional Outlines (Unit: mm)			

* 3 times the standard deviation with a 0% sample



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

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<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.**
Head 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 Branch**
 12F, Metropolis Tower, No.2,
 Haidian Dong 3 Street,
 Beijing, 100080, China
 Phone: 86 (10) 8567-9966
 Fax: 86 (10) 8567-9066

● **Guangzhou Branch**
 Room 1611/1612, Goldlion
 Digital Network Center,
 138 Tiyu Road East,
 Guangzhou, 510620, China
 Phone: 86 (20) 3878-1883
 Fax: 86 (10) 3878-1810

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

● **HORIBA India Private Ltd.**
Head Office
 246, Okhla Industrial Estate,
 Phase 3 New Delhi - 110020,
 India
 Phone: 91 (11) 4669-5001
 Fax: 91 (11) 4669-5010

● **Bangalore Office**
 Kamadhenu, No.17/1 - 32,
 Bannerghatta Road,
 Audugodi 560030
 Bangalore India
 Phone: 91 (80) 22210071

● **HORIBA Instruments (Singapore) Pte Ltd.**
Head Office
 3 Changi Business Park Vista
 #01-01 Akzonobel House,
 Singapore 486051
 Phone: 65 (6) 745-8300
 Fax: 65 (6) 745-8155

● **Hanoi Office**
 Unit 10, 4 Floor, CMC tower,
 Lot C1A, Handicraft and
 Manufacturing Industrial Zone,
 Dich Vong Hau Ward, Cau
 Giay district, Hanoi, Vietnam
 Phone: 84 (4) 3795-8552
 Fax: 84 (4) 3795-8553

● **PT HORIBA Indonesia**
 Jl. Jalur Sutera Blok 20A,
 No. 16-17, Kel. Kunciran,
 Kecamatan Pinang,
 Tangerang-15144,
 Indonesia
 Phone: 62 (21) 3044 8525
 Fax: 62 (21) 3044 8521

● **HORIBA (Thailand) Ltd.**
 393, 395, 397, 399, 401,
 403, Latya Road,
 Somdetchaopraya,
 Klongsan, Bangkok 10600,
 Thailand
 Phone: 66 (2) 861 5995
 Fax: 66 (2) 861 5200

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

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

● **HORIBA Jobin Yvon SAS**
 16-18 rue du Canal,
 91165, Longjumeau Cedex,
 France
 Phone: 33 (1) 64-54-13-00
 Fax: 33 (1) 69-09-07-21

● **HORIBA Jobin Yvon GmbH**
 Haupt-Str. 1* D-82008
 Unterhaching, Germany
 Phone: 49 (89) 46-23-17-0
 Fax: 49 (89) 46-23-17-99

● **HORIBA ITALIA SRL**
 Via Luca Gaurico
 209 - 00143, Foma, Italy
 Phone: 39 (6) 51-59-22-1
 Fax: 39 (6) 51-96-43-34

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

● **HORIBA Instruments Brazil, Ltda.**
 Rua: Presbitero Plinio Alves de
 Souza, 645, Loteamento Polo
 Multivias Bairro Medeiros -
 Jundiai Sao Paulo -
 CFP 13.212-181 Brazil
 Phone: 55 (11) 2923-5400
 Fax: 55 (11) 2923-5490

Bulletin:HRE-3943A

Printed in Japan TG-F(SK)33