X-RAY SULFUR METER model RX-620SA

ISO 8754, ASTM D4294

RX-620SA determines **total sulfur in petroleum products**, such as gas oil, fuel oil, crude oil and naphtha, using energy dispersive X-ray fluorescence(EDXRF) method, which is an accurate, non-destructive, economical and yet quick method prescribed in ISO 8754 and ASTM D4294-03. Once a sample is set, the total sulfur is determined automatically in 300 seconds(typical). The model RX-620SA is a 12-sample carousel model. After its successful predecessors, this fourth generation has been developed to further improve the accuracy and ease of use.

HIGH PRECISION: Pulse height analysis(PHA) is automatically carried out before each measurement to adjust the system. This innovative system design has further improved the precision.

WIDE RANGE OF SAMPLES: Patented “Diamond Parameter Method” accurately compensates for measurement error caused by different carbon/hydrogen(C/H) ratio of individual sample. This state-of-art technology enabled measurement of wide range of samples of different C/H ratios with uncompromising precision.

AMBIENT TEMPERATURE AND BAROMETRIC PRESSURE COMPENSATION: Compensation for ambient temperature and barometric pressure are made automatically to drastically minimize the drift.

AUTOMATIC CALIBRATION: Set certified calibration standards and start automatic calibration program to carry out automatic calibration. Either multiple point calibration at up to 12 points or two point calibration starts.

CAROUSEL TYPE SAMPLE CHANGER WITH ACRYLIC COVER: X-ray shielding is by a metallic cover moving downward on the objective sample cell. Since the acrylic dust cover is not intended for shielding X-ray, it may be opened during a test, allowing access to sample cells in the cue.

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X-Ray Sulfur Meter, models RX-620SA

SPECIFICATIONS:

TYPE:

Total sulfur analyzer for petroleum products by energy-dispersive X-ray fluorescence method (EDXRF)

CONFORMING STANDARDS:

ISO 8754, ASTM D4294-03, etc.

SAMPLE CANGER:

Carousel type 12-position sample changer. Sample cells not being measured are accessible during the measurement.

SAMPLE VOLUME:

Approx. 5ml

MEASURING RANGE:

0-6.00wt%

REPEATABILITY: (Typical)

Range	Repeatability	Measuring Time
0.008wt%max	10ppm*	300sec x 3times
0.05wt%max	20ppm	100sec x 3times
0.05-0.50wt%	40ppm	100sec x 3times
0.51-1.50wt%	60ppm	100sec x 3times
1.51-2.00wt%	100ppm	100sec x 3times
2.01-4.00wt%	200ppm	100sec x 3times
4.01-6.00wt%	400ppm	100sec x 3times

*: ASTM D4294 designates the repeatability in the range(r). In terms of standard deviation, 5ppm.

C/H RATIO COMPENSATION:

Automatic with 0.003wt% max of compensation error when a 1wt% sample is tested.

MEASURING TIME:

10-990sec. 1-99 times.

CALIBRATION:

*Automatic two point calibration automatically followed by a measurement.

*Manual two point calibration

*Automatic multiple-point calibration(up to 12 points)

*Manual multiple-point calibration(up to 12 points)

X-RAY SOURCE: X-ray tube rated 7KV

SAMPLE CELL:

2-piece Teflon cup with disposable mylar film

PRINTER:

Built-in impact dot matrix printer (57mm)

DISPLAY:

LCD (20 characters x 4 lines)

DATA OUTPUT: RS-232C 1cannel

X-RAY LEAKAGE:

0.6μSv/Hr or less on instrument surface

OPARATING TEMPERATURE/HUMIDITY:

10-30 ^{o}C with a temperature drift within 10^{o}C in a day. RH to be within 80%.

POWER SULLPY:

AC 100-240V+/-10%, 45-66Hz, 200VA

SAFETY:

Interlock mechanism against accidental X-ray leakage

DIMENSIONS/WEIGHT:

560mmW x515mmD x245mmH/ 29kg

ORDERING INFORMATION:

STANDARD ACCESSORIES:

1.Power supply cable	1pc
2.Sample cell holder	12pcs
3.Sample cell holder spring	12pcs
4.Teflon sample cells	12pcs
5.Sample cell assembling jig	1set
6.Sample cell disassembling jig	1pc
7. Mylar sheet (200mm x 1,000m)	1roll
8. Sample cell stand	1pc
9.Printer roll paper	3rolls
10.Printer ink ribbon	1pc
11.Printing paper holder	1pc
12.Spare glass tube fuse	2pcs

START UP KIT:

1.Certified calibration standard (requires when set-up)
(0.0%,100ppm,200ppm,500ppm,800ppm,0.1%,
0.2%,0.5%,1%,2%,3%,&4%)

SUGGESTED SPARES:

1. Mylar film (200mm x 1,000m)	1 roll
2. Printer roll paper (5rolls/pack)	5 pks
3. Printer ink ribbon	5 pcs

Specifications subject to change without prior notice.

TANAKA SCIENTIFIC LIMITED

7-10-3, Ayase, Adachi-ku, Tokyo 120-0005 Japan

Tel: +81-3-3620-1711 Fax: +81-3-3620-1713

URL: http://www.tanaka-sci.com

e-mail: sales@tanaka-sci.com

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