

RA-520N/RA-500N/RA-410

Brix Meter

RA-410



■ Introduction

The RA-410 Brix Meter measures refractive index of liquid sample and converts it to **Brix value** or **isomerized sugar concentration**. Hard copies of measurement data can be output by the optional printer, and such data can even be downloaded to user's personal computer for further data processing.

■ Feature

- 1) The instrument is fabricated into drip-proof structure.
- 2) Reproducibility of measurement results is Brix $\pm 0.01\%$.
- 3) Measurement temperature is automatically compensated.
- 4) Measurement results can be obtained by easy operation in a short time.
- 5) Light source is LED, thus eliminating replacement of conventional light bulb.
- 6) The prism is made of sapphire which is chemically resistant, rigid and of high thermal conductivity.
- 7) Highly reliable measurement is made possible by temperature detection between the sample and prism.

■ Specification of Brix meter

Type and Model name	RA-410 Brix Meter
Measuring method	Measuring method Detection of critical angle of Na-Dline (589.3nm)
Measuring range	1) Brix: 0.00 to 85.00% (ICUMSA conformed) 85.00 to 100% (out of ICUMSA) Soluble solid converted at 20°C based on conversion table at the 16th session of ICUMSA 1974. 2) HFCS42: 0.00 to 76.00% (ICUMSA conformed) 76.00 to 100% (out of ICUMSA) 3) HFCS55: 0.00 to 80.00% (ICUMSA conformed) 80.00 to 100% (out of ICUMSA) HFCS42 shows 42% fructose within isomerized sugar. Concentration of isomerized sugar adopts conversion table of Com Product Inc.
Accuracy	1) Brix : $\pm 0.03\%$ (0.00 to 85.00%) 2) HFCS42 : $\pm 0.03\%$ (0.00 to 76.00%) 3) HFCS55 : $\pm 0.03\%$ (0.00 to 80.00%)
Repeatability	$\pm 0.01\%$
Resolution	0.01%

Temperature compensation range	1) Brix : 10 to 40°C 2) HFCS42/55 : 20 to 60°C
Minimum sample	0.2mL
Measuring time	4 seconds (depends on sample)
Display	1) LC display 2) Contents: Brix and Isomerized sugar concentration
Sampling	Manual by dripping pipette
Temperature compensation	Brix and Isomerized sugar concentration
Statistical computation.	Mean value, standard deviation, relative standard deviation. Automatic computation by the built-in processor.
External connection	1) Personal computer: RS-232C serial interface 2) External printer: RS-232C serial interface
Ambient condition	Temperature: 5 ~ 35°C Humidity: less than 85%RH (under no condensation)
Power source	AC100 ~ 240V, 50/60Hz
Power consumption	20W
Dimension	288(W)×468(D)×247(H)mm
Weight	6 kg approx



KYOTO ELECTRONICS
MANUFACTURING CO.,LTD.

Overseas Division : 8-3 Niban-cho Chiyoda-ku TOKYO 102-0084, JAPAN
Fax : +81-3-3237-0537, Phone : +81-3-3239-7333

URL : <http://www.kyoto-kem.com>

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京都电子工业株式会社-中国分公司
可睦电子(上海)商贸有限公司
上海徐汇区中山西路2366弄1号203室
TEL: 021-54488867
E-mail: kemu-kem@163.com
<http://www.kem-china.com>

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