

# LC 6000

Specification sheet

## SCION 6450 Refractive Index Detector

### MAIN UNIT

#### Dimensions & Weights

Dimensions (W x H x D)	340 x 150 x 400 mm
Weight	Approx. 12 kg (27 lbs)
Power Supply	AC 100 to 240 V $\pm$ 10%, 50/60Hz, 150 VA max.

#### Optical System

Flow cell type	2 chamber-type
Measuring method	Deflection type
Refractive Index range	1.00 to 1.75
Measuring range	0.25 to 512 $\mu$ -RIU
Drift	0.2 $\mu$ -RIU/h (Pure water 1mL/min, PURGE OFF)
Linearity range	$\geq$ 600 $\mu$ -RIU
Noise	$\leq$ 2.5 nRIU (Pure water, response: 1.5sec)
Response	0.1, 0.25, 0.5, 1, 1.5, 2, 3, 6 sec
Auto zero	Full auto zero
Auto zero range	All range
Off-set response	10 $\mu$ -RIU
Integrator output (Sensitivity)	DC 0 to 1V (2mV/ $\mu$ -RIU, 8mV/ $\mu$ -RIU)
Cell volume	8 $\mu$ L
Flow rate	Usual: 0.2 to 3.0 mL/min Max: 10 mL/min (solvent: pure water)
Max. back pressure	50 kPa
Internal volume	IN to Cell: ca. 60 $\mu$ L Cell to OUT: ca. 600 $\mu$ L All (Cell to OUT: ca.67 0 $\mu$ L)
Wetted materials	Stainless steel 316, Teflon, Quartz glass
Temperature control	OFF, 30~55°C (1deg-C step), 77°C Temp. fuse



#### Communications

Recorder output	0 to 10 mV/FS
External input	-
External output	(1) READY (temperature control) (2) Solvent Leak (3) ERROR ROM/RAM/PARAMETER, Home position, Overheat, Optical balance, Intensity
Communication port	USB
Operational support functions	None
Accessories	Power cable, single code, connector tube, fuse, operation manual
EMC Standards	EN61326-1
Safety Standards	EN61010-1

#### Environmental Conditions

Altitude	up to 2000m
Temperature	5°C to 40°C
Maximum relative humidity	80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C

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