

# NCK2 5G



## NCK2 5G



Designed for measurement the evaporation loss of lubricating oils, the ISL's NCK2 5G analyzer enables the safest, easy to operate and most precise testing possible to meet the increasing QS/QA requirements, in full compliance with **CEC, ASTM & IP methods**.

Designed for routine day-to-day work in labs with high sample workloads, the NCK2 5G test initiates with a few simple keystrokes. The test can be started with either a cold or hot heating block, significantly increasing test productivity. **Smart assistance features** automatically alert the operator if any test device is not properly set, and the instrument carefully tracks sample temperature and vacuum throughout

the test's duration, providing a digital display of each and recording the values to memory.

NCK2 5G's **advanced quality control features** — including traceable automatic calibrations with lock-out control and detailed test reports with tracking numbers of all measuring devices — fulfill strict ISO 9000 quality system requirements. The metal temperature probe is delivered with an engraved serial number and traceable calibration certificate. Extended local memory capacity, graphic printer connection and PC link enable powerful, flexible results management.

Users can choose to have the NCK2 5G operate as a stand-alone unit or benefit from using it in a PC-controlled network with PAC IRIS Software. This advanced lab instrument data integration software is designed specifically for PAC instruments to gather and analyze test data and communicate results so customers can make informed decisions.

PAC IRIS offers:

- Improved laboratory efficiency
- Simplified knowledge sharing and decision making
- Designed to promote Good Laboratory Practices

### KEY BENEFITS

- Excellent analysis performance through precise sample temperature control
- Smart temperature probe tracks offsets, calibrations
- Enhanced quality control and calibration features
- Multiple safety features, including automatic pre-test leak check
- Fully equipped unit in compact footprint

### APPLICATION

- Base stock oil
- Formulated motor oil
- Gear box & transmission oil
- Shock absorber oil
- Automatic transmission fluid
- Hydraulic fluid
- Waxy products

### METHODS

- In accordance with:
- CEC L-40-93
  - ASTM D5800
  - IP 421



## U.S.A.

PAC, LP | 8824 Fallbrook Drive | Houston, Texas 77064  
T: +1 800 444 TEST | O: +1 281 940 1803 | F: +1 281 580 0719  
sales.usa@pacpl.com | service.usa@pacpl.com

## FRANCE

BP 70285 | Verson | 14653 CARPIQUET Cedex  
T: +33 231 264 300 | F: +33 321 266 293  
sales.france@pacpl.com | service.france@pacpl.com

## GERMANY

Badstrasse 3-5 | P.O.Box 1241 | D-97912 Lauda-Königshofen,  
T: +49 9343 6400 | F: +49 9343 640 101  
sales.germany@pacpl.com | service.germany@pacpl.com

## SINGAPORE

61 Science Park Road | 03-09/10 The Galen  
Singapore Science Park III | Singapore 117525  
T: +65 6412 0890 | F: +65 6412 0899  
sales.singapore@pacpl.com | service.singapore@pacpl.com

## NETHERLANDS

P.O.Box 10,054 | 3004 AB Rotterdam  
Innsbruckweg 35 | 3047 AG Rotterdam  
T: +31 10 462 4811 | F: +31 10 462 6330  
sales.netherlands@pacpl.com | service.netherlands@pacpl.com

## RUSSIA

Shabolovka Street | 34, Bldg. 2 | 115419 Moscow  
T: +7 495 617 10 86 | F: +7 495 913 97 65  
sales.russia@pacpl.com | service.russia@pacpl.com

## CHINA

Room 1003, Sunjoy Mansion | No. 6 RiTan Rd.  
Chao Yang District | Beijing 100020  
T: +86 10 650 72236 | F: +86 10 650 72454  
sales.china@pacpl.com | service.china@pacpl.com

## INDIA

403, Sentinel, Central Avenue, Hiranandani Gardens  
Powai, Mumbai - 400 076 INDIA  
T: +91-22-2570 3636  
sales.india@pacpl.com | service.india@pacpl.com

## MIDDLE EAST

A1 Quds Street, A1 Tawar road | LIUH13 Dubai Airport Freezone  
Near Dubai Airport (terminal 2) | P.O.Box 54781 | Dubai, UAE  
T: +971 04 2947 995 | F: +971 04 2395 465  
sales.middleeast@pacpl.com | service.middleeast@pacpl.com

## SOUTH KOREA

621 World Vision Building | 24-2, Youido-dong  
Seoul 150-010  
T: +82 2785 3900 | F: +82 2785 3977  
sales.southkorea@pacpl.com | service.southkorea@pacpl.com

## THAILAND

26th Floor, M. Thai Tower | All Seasons Place  
87 Wireless Road | Lumpini, Phatumwan | Bangkok 10330  
T: +66 2627 9410 | F: +66 2627 9401  
sales.thailand@pacpl.com | service.thailand@pacpl.com

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For more information visit [www.pacpl.com](http://www.pacpl.com)

## ISL

ISL is a global, leading provider of scientific apparatus and instruments for testing petroleum and petrochemical products in the lab and online. More than 20 automatic analyzers bearing the ISL brand are recognized for increasing test precision, boosting laboratory efficiency and reducing costs.

Continuing research and development may result in specifications or appearance changes at any time

## POWERFUL PRECISION, VERSATILE TESTING

- Directly measures specimen temperature, providing evaporation loss characteristics in accordance to CEC, ASTM "Procedure B" and IP methods
- Compact footprint and monoblock design
- High sample throughput thanks to minimum downtime - Test Start either "Cold" or "Hot" mode
- Optional tube heating for waxy application testing

## SMART, FLEXIBLE USER INTERFACE

- Accurate visualization of Temperature and Pressure Curves

## ENHANCED SAFETY & QUALITY COMPLIANCE

- Heating without Wood's alloy usage for increased safety & analysis precision
- Automatic alarms and start test refusal in case of improper installation of sample probe and/or crucible
- Smart temperature probe with built-in memory chip transmits ID, offset values and calibration history to instrument at plug-in
- Detailed test reports with tracking numbers of measuring devices

## SPECIFICATIONS

<b>GENERAL INFO</b>		•Standards Test Methods: CEC L-40-93, ASTM D5800, IP 421 •Patents and Certifications : Compliance CE
<b>OPERATION</b>		
Analytical principle	Automatic calculation of evaporation loss by No	
Heating	Spring ring low voltage heating elements	
Test duration	Programmable from 30 minutes to 4 hours	
Temperature Measurement	Direct specimen temperature control; Programmable from 100 to 300°C; ±0.1°C resolution; ±0.5°C stability	
Sample Weight Management	Key in by operator or optional direct balance connection;	
Vacuum	19 to 21 mm H2O; ±0.05 accuracy, ±0.2 stability electronic vacuum control (standard); vacuum circuit equipped with air filter (standard); optional flowmeter	
Calibration	Automatic calibration with programmable frequency; 5-point probe offset correction table; automatic diagnostic routines on analyzer functions; upload/download service features via PC; calibration parameters and unit program backup/restore feature	
<b>MEASUREMENTS</b>		
Temperature	Pt100 with built-in memory chip; instrument automatically recognizes probe at plug-in, gathering its ID, offset values and calibration history records; Offset capability with correction table (5 points)	
Sample Crucible Cover	engraved with serial number for tracking when several crucibles are used on one NCK2 5G; 10 crucible's serial number can be memorized by the instrument	
<b>DATA MANAGEMENT</b>		
Voltage	230-240V or 100-115V	Frequency   50-60Hz   Power   800 W
<b>INTERFACE SPECIFICATIONS</b>		
Display	LCD Graphic display, Alphanumeric keypad, flat and solvent-proof, with dedicated function keys	
PAC IRIS Software features for NCK2 5G	• Run Control • Results	• Reports • Quality Control
Data input/Output	Centronics® parallel link for graphic or text printer (40 or 80 columns). RS232C serial link for direct connection to LIMS or external PC	
<b>ENVIRONMENTAL CONDITIONS AND PHYSICAL SPECS</b>		
Operating temperature	15 to 35°C (50 to 104°F)	
Humidity	Relative humidity: up to 80% at 35°C (not condensing)	
Dimensions	450 x 640 x 450 mm (18")(18 x 25 x 18 inch) (W x D x H)	
Weight	30 kg (66 lb)	
<b>SAFETY AND ERROR PREVENTION</b>		
Password Security	Multi-level password protection	
Vacuum Leak Check	Automatic self-check for leaks at start of each test run	
Test Condition Verification	Message warning & audible alarms if test conditions are not correct	
Temperature	Programmable sample over-temperature security, +10°C setpoint; heating block overheating protection; test can be started with cold or hot heating block	
<b>RELIABLE PERFORMANCE &amp; QUALITY</b>		
Automatic calibration with calibration frequency program; probe correction capabilities Stores time-recorded, automatic calibrations with results Endurance tested and proven for long-term operation Accommodates and enhances most rigorous quality control programs		

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