

Manual TLD-Reader RA'04



Versatile and user friendly

The **RA-04** is a portable and stand-alone Reader-Analyzer TLD System for measuring, analyzing and evaluating thermoluminescent materials. Convenient for the operator the reader automatically regulates the sensitivity based on a constant reference light and the PMT dark current. The dedicated software package is fully PC compatible. The unit incorporates research, analysis and measurement together with a creation of a data base of luminescence curves, visualization and export in ASCII format.

Applications

- Radiation protection
- Medicine
- Experimental physics
- Environmental research
- Geology – dating
- Checking irradiated food

Technical Specifications

Sensitivity	programmable with reference light source
Accuracy	$\pm 2\%$ S.D. (for multiple readout of a pellet)
Stability	better than $\pm 2\%$ during 8 h operation
Readout time	mode READER: 3 – 180 s; standard 22 s mode ANALYSER: 25 – 4000 s mode XREADER: max. 45 s total time
Three-step heating	adjustable temperatures 20 - 400 °C time of each cycle 1 – 60 s
Max. heater temperature	adjustable up to 400 °C with high temperature option: up to 600 °C
Linear heating speed	adjustable 0.5 – 20 °C/s
Data output	LCD display parallel CENTRONICS output (to printer) serial RS-232C (to computer)
Measurement range	9 decades for manual mode
Neutral Density Filter	10:1; 100:1; 1000:1; 10000:1
High voltage supply	automatic adjustment
Heater planchet	high durability and stability platinum alloy
TL detector size	less than 12 mm (due to the deepening of the heating planchet)
Planchet size	\varnothing 6 mm or \varnothing 12 mm deepening
Power supply voltage	230V \pm 10 %, 0.8 A, 50 Hz
Power consumption	200 VA
Shielding gas	Nitrogen, Argon
Ambient temperature	-10 °C - +26 °C, do not expose on sunlight and do not locate near heat source
Dimensions	400 mm \times 180 mm \times 330 mm
Weight	approximately 12 kg (net), 19 kg (gross)

All information in this brochure is subject to technical changes without notice.

Accessories



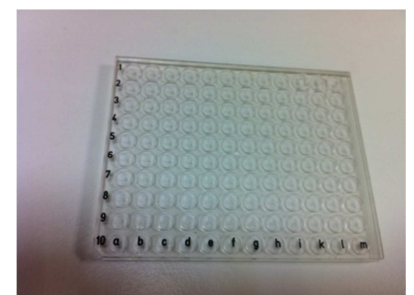
N2 gas pressure reducer, metric



Programmable TLD Oven



Vacuum Tweezers incl. Vacuum Pump (115-230V, 50-60Hz)



Storage dish for 120 TLD elements

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