



FEATURES

- Permanently bar-coded for user identification and tracking
- Whole-body, wrist and area monitoring configurations
- Provides thermal, intermediate and fast neutron dosimetry capability

TLD 760

- Wear periods from one week to one year
- Choice of colors to differentiate departments and/or visitors
- Available with CR39 for fast neutron dosimetry

TLD 802

- Wear period from one week to six months

TLD DOSIMETERS

Fully automated precision response

Dosimetry Services offers TLD dosimeters which are based on state-of-the-art technology. These small, lightweight dosimeters come pre-loaded and are easy to wear. TLDs offer the advantage of precise response and long wear periods, due to their resistance to environmental factors such as moisture and humidity.

All processing is fully-automated, reducing the chance of human error and misidentification. Proprietary algorithms provide for exceptionally accurate dosimetry. Reports are computer-generated with exposure histories automatically updated. Dosimeters come pre-loaded, eliminating the need for tedious badge loading.

The TLD 760 and 802 respond accurately to beta, gamma, X-ray and neutron radiations. The response of each element is corrected by the application of its own unique element correction factor. Both TLDs allow for the reporting of deep, lens of eye and shallow doses.

APPLICATIONS

- Any occupational worker with potential exposure to gamma, X-ray, beta and/or neutron radiation.
- Nuclear medicine facilities, imaging centers, research diagnostic centers and all employees with potential exposure to gamma, X-ray and beta.
- Nuclear power plant workers, research laboratories, hospitals, universities and industrial applications.
- The TLD 802 is available only in the U.S.
- General public.



dosimetry services

A Mirion Technologies Division

Featuring:



TECHNICAL SPECIFICATION

Badge Name	TLD 760 Dosimeter	TLD 802 Dosimeter
Badge Type	16 PB= TLD 760 15 PB= TLD 760 with CR39 25 PB= TLD 760 with ¹¹⁵ In* and CR39 26 PB= TLD 760 with ¹¹⁵ In*	03= TLD 802
Description	4 element Harshaw TLD (3 ⁷ LiF:Mg, Ti [TLD700] and 1 ⁶ LiF:Mg, Ti [TLD600])	4 element Panasonic TLD (2 LiBO and 2 CaSO)
Manufacturer	TLD: Thermo Electron RMP CR39: PPG	Panasonic
Accreditations/Approvals/Licenses	NVLAP (Code: 100555-0) DoELAP HSE (United Kingdom) CNSC (Canada)	NVLAP (Code: 100555-0)
Holder Type	Whole body, wrist, area wall hanger	Whole body, wrist, area wall hanger
Wear Location	Area, equipment, collar, lower left extremity, lower-right extremity, non-personal use, non-specific extremity, upper-left extremity, unknown, upper-right extremity, whole body	Area, equipment, collar, lower left extremity, lower-right extremity, non-personal use, non-specific extremity, upper-left extremity, unknown, upper-right extremity, whole body
Minimum Reportable Dose	10 mrem (0.10 mSv)	10 mrem (0.10 mSv)
Useful Dose Range	10 mrem - 1000 rad (0.10 mSv - 10 Gy)	10 mrem - 1000 rad (0.10 mSv - 10 Gy)
Energy Response	Beta (MAX): 0.766 MeV - 5 MeV Photon: 5 keV - 6 MeV Neutron (TLD): Thermal - 6 MeV Neutron (CR39): 200 keV - 6 MeV**	Beta (MAX): 0.766 MeV - 5 MeV Photon: 5 keV - 6 MeV Neutron: Thermal - 6 MeV

*Not accredited for personnel monitoring

**Neutron energies up to 20 MeV with CR39 and special calibration.

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