

# TLD 760 Dosimeter

## Fully Automated Precision Response



### Features:

- Small and lightweight
- Preloaded
- State-of-the-art automated processing
- Permanently bar-coded for user identification and tracking
- Whole-body, wrist and area monitoring configurations
- Wear periods from 1 week to 1 year
- Choice of five colors to differentiate departments and/or visitors
- TLD 760 badge provides thermal neutron dosimetry capability
- TLD 760 available with CR39 for fast neutron dosimetry
- Establishes a permanent record of exposure

TLD dosimeters offer the advantage of precise response and long wear periods due to their resistance to environmental factors such as moisture and humidity. By utilizing a combination of four lithium fluoride thermoluminescent elements, the TLD responds accurately to beta, gamma, X-ray and neutron radiation. The response of each element is corrected by the application of its own unique element correction factor.

The TLD 760 allows for reporting of deep, lens of eye and shallow doses, and has a thin mylar window for detection and measurement of low energy beta radiation. 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. TLD 760 dosimeters come pre-loaded, eliminating the need for tedious badge loading.



### Applications

- Any occupational worker with potential exposure to gamma, X-ray, beta and/or neutron radiation.
- Nuclear medicine facility, imaging centers and research diagnostic centers and all employees with potential exposure to gamma, X-rays and beta.
- Nuclear power plant workers, research laboratories, hospitals, universities and industrial applications.

## Proven Expertise

With the rapidly changing pace of your business today, the need for radiation safety is greater than ever. GDS understands the importance radiation monitoring plays in your business and the importance of maintaining the health of your employees. Rely on the over thirty years of experience of GDS to provide the right monitoring products and reliable data collection specially tailored for your work environment.

## Results You Can Trust

GDS products are currently being utilized wherever there is a potential for occupational radiation exposure – from private practitioner medical offices, dentists, veterinarians, hospitals and universities to large nuclear facilities. We can help you determine the right products for your business and provide accurate exposure reports to ensure the safety of your employees.

At GDS, customer satisfaction is our number one priority. Each day we strive to regularly exceed customer satisfaction and ensure that commitments are met on time, every time.

## GDS offers:

- Accurate monitoring reports and permanent compliance documentation
- Access to highly qualified health physicists and radiation dosimetry experts
- Convenient badge data storage in underground archival retention vaults for easy and safe retrieval for our customers

## Technical Specifications:

Badge Name	TLD 760 Dosimeter
Badge Type	16 = TLD 760 15 = TLD 760 with CR39 25 = TLD 760 with <sup>115m</sup> In and CR39 26 = TLD 760 with <sup>115m</sup> In
Description	4-chip Harshaw TLD
Manufacturer	Thermo Electron RMP
Accreditations/ Approvals/Licenses	NVLAP DOELAP HSE (United Kingdom) CNSC (Canada)
Holder Type	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
Minimum Reportable Dose	10 mrem (0.10 mSv)
Lower Limit of Detection	6 mrem (0.06 mSv)
Useful Dose Range	10 mrem – 1000 rads (0.10 mSv – 10 Gy)
Energy Response	Beta (MAX) 0.766 MeV – 5 MeV Photon 5 keV – 6 MeV Neutron Thermal 6 MeV up to 20MeV with CR39

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