A new luminescence detection and stimulation head for the Risø TL/OSL reader - DTU Orbit (18/05/2019)

A new automated Detection And Stimulation Head (DASH) has been developed for the Risø TL/OSL luminescence reader to provide easy access to new technologies, new signals and new measurement methods. The automated DASH includes a filter changer and a detector changer that makes it possible to change stimulation filters (4×4 filter combinations possible) and detectors (3 detectors possible) as part of a measurements sequence. The new automated DASH with dedicated driver electronics does not affect the use of other attachments, and can be retrospectively fitted to existing Risø TL/OSL readers.

General information
Publication status: Published
Organisations: Center for Nuclear Technologies, Radiation Physics, Aarhus University
Contributors: Lapp, T., Kook, M. H., Murray, A. S., Thomsen, K. J., Buylaert, J., Jain, M.
Pages: 178–184
Publication date: 2015
Peer-reviewed: Yes

Publication information
Journal: Radiation Measurements
Volume: 81
ISSN (Print): 1350-4487
Ratings:
BFI (2015): BFI-level 1
Scopus rating (2015): CiteScore 1.26 SJR 0.592 SNIP 0.862
Web of Science (2015): Impact factor 1.071
Web of Science (2015): Indexed yes
Original language: English
Keywords: Instrumentation, Optical stimulation, Spatially resolved detection, Automation, Technology transfer, Automated detection, Driver electronics, Luminescence detection, Luminescence reader, New Measurement Method, Spatially resolved, Luminescence
Electronic versions:
Rev1_Manuscript_OpenAccess.pdf. Embargo ended: 03/02/2017
DOIs:
10.1016/j.radmeas.2015.02.001
Source: FindIt
Source-ID: 274103225
Research output: Contribution to journal › Conference article – Annual report year: 2015 › Research › peer-review