

Electronic Dosimeters Terminal TED



The TED terminal serves as an end device of the SEOD Electronic Personal Dosimetry System. The terminal works with a database of persons and their personal doses and enables their entrance into controlled area according to specified parameters. The terminal transfers all acquired data for further processing into the host system.

Purpose

The electronic dosimeters terminal TED serves as the SEOD Electronic Personal Dosimetry System's end device, used when workers enter/leave controlled areas (CA). It works with a database of persons and their personal doses and enables their entrance into the CA according to specified parameters. However, apart from acquiring data from the workers' dosimeters when they leave the CA, it also has other functions. The terminal transfers all data acquired during the entry/exit process for further processing into the host system.

The system allows the registration of all people going into the controlled area (using identification cards) and the supervision of their personal doses (using electronic personal dosimeters).

Description

The TED terminal consists of the following basic components:

- **Panel Computer** – controls the operation of the entire system and provides swift communication within the host system (primarily SEOD). It includes a touch-screen which provides a user-friendly interface for communication with the user.
- **Dosimeter reader(s)** – communicates with an inserted dosimeter. One terminal can include multiple readers for various dosimeter types produced by various manufacturers (MGP/Mirion/Rados, Siemens/Thermo, Atomtex, etc.)
- **Internal power supply** – convertor 230V AC/24V DC, back-up battery power supply 2x 13.8V/10 Ah
- **I/O module** – controls connected technologies (e.g. the entrance turnstile)

Main Advantages

- User-friendly graphic interface with a large touch-screen
- Reducing time necessary for entering the controlled area
- The system does not depend on the type or manufacturer of the electronic personal dosimeter used.
- Readers of various dosimeter types (by various manufacturers) can be integrated into a single terminal
- An ID card reader (chip, magnetic or bar-code cards), to display personal data, may be included

Specification

Maximum standard box dimensions

- width 540 mm (21.3 in)
- height 260 mm (10.3 in)
- depth 430 mm (17 in)

Weight app. 30 kg (66 lb)

Power supply 230 VAC

Input max. 170 VA

Communication Ethernet

TFT touch-screen 12,1"

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Description

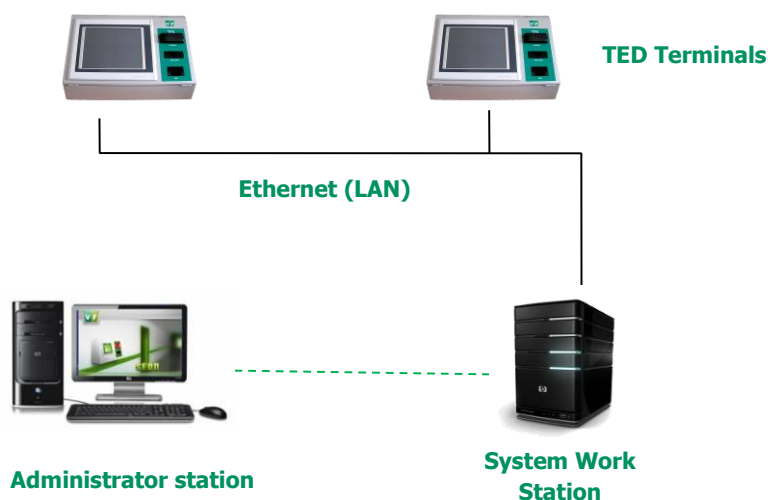
Persons entering/leaving a CA identify themselves by scanning their identification card through the barcode reader and the dose values before and after the entry to the CA are read after inserting the electronic dosimeter into the terminal slot. The TED terminal communicates with the central database of the host system in order to assess whether the conditions for entering a CA are met (valid entry permit, non-exceeded maximum permitted personal dose, valid dosimeter calibration, etc.) and to record the data.

After inserting the dosimeter into the reader upon entering the controlled area, the system automatically matches the dosimeter to the identified person. After returning from the controlled area, information on the dose received is read from the dosimeter and stored in the database. Subsequently, the dosimeter is reset.

Automatic data transfer from dosimeters and automatic identification using ID cards minimizes the risk of errors occurring in manual data processing.

The TED terminal is autonomous to a certain extent; upon interrupted communication with the host system, the data of persons passing through the CA border is stored in the internal memory and automatically transferred to the central database after the communication has been re-established. If necessary, (in the case of a long-term communication outage), it is also possible to provide data transfer off-line and synchronize them with the central database.

HW Configuration of the SEOD System



Models and Accessories

Type	Description
K0040	Electronic Dosimeters Terminal TED
Optional Accessories	
<ul style="list-style-type: none"> ▪ Barcode reader – identification of persons or work orders using barcodes ▪ Magnetic card reader – identification of persons using magnetic cards ▪ Chip reader – identification of persons using chips ▪ Dosimeter contamination control module – detects possible contamination of dosimeters inserted, protects the readers from contamination and prevents contamination from spreading to other dosimeters 	
Related Products	
K0041	Electronic Personal Dosimetry System SEOD
N/A	Personal Dosimetry Service (SOD)
K0043	Electronic Dosimeters Terminal TED-MP
K0041	Electronic Personal Dosimetry System SEOD-MP



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