

Dispenser of Personal Dosimeters DPD series



The DPD dispensers of personal dosimeters are used for the automatic, fast and controlled issuing of personal dosimeters for workers that enter into controlled areas, especially in nuclear power plants and other nuclear facilities.

Purpose

The DPD dispensers of personal dosimeters are used for the automatic, fast and controlled issuing of personal dosimeters for workers that enter into controlled areas, especially in nuclear power plants and other nuclear facilities. Smaller versions are also available for hospitals and other workplaces.

Description

The DPD dispenser of personal dosimeters master unit consists of the following parts:

- Standalone or wall-mounted case for a few rows of dosimeter slots;
- Internal PLC control unit with touchscreen;
- Barcode reader for personal ID and dosimeter identification (other types of reader can be used, e.g. magnetic reader, chip reader, etc.);
- Optical status signalling;
- Uninterruptible power supply (UPS).

Each DPD master unit can be extended with DPD slave units. DPD slave units consist of the same parts except the PLC control unit, whose function is inherited from the DPD master unit.

The DPD automatic issuing machine can operate as an autonomous system or it can cooperate with a host system, e.g. the SEOD electronic personal dosimetry system or the ISOD the personal dosimetry information system, which is developed and supported by VF.

While connected to local network it cooperates with PC where the worker database is installed. The database is used for acquiring and storing the data about the workers entering into the controlled area and for storing information about the real dosimeter issues performed.

The DPD series dispensers use the common database at workplaces with the SEOD/ISOD already installed. Additionally, the SEOD/ISOD systems can offer more advanced processing and evaluation of the information about the presence of the workers in the controlled area and about their doses received.

Main Advantages

- Protects from unauthorized handling of dosimeters. After identification each worker can take out only the assigned dosimeter and cannot take by mistake or intentionally the dosimeter assigned to another worker.
- Optimizes (diminishes) the overall number of dosimeters that have to be issued and handled each month. A specific dosimeter is assigned to each worker just before his first entry into the controlled area. It is not necessary to dispense all dosimeters for all workers with an entry permit, but only for those workers that really enter into the controlled area during the monitored time interval.
- Use of different types of dosimeters. Their usability depends only upon suitable dosimeter dimensions.
- Online information transfer to the other personal dosimetry system.



Dosimeter being taken from the slot

Models and Accessories

Type	Short name	Unit type	Case dimensions (W x H x D) cm	Number of blocks	Type of block used	Number of slots	Max. number of slave units
K1458	DPD-120M	„Master“	(76 x 106 x 21)	1 ~ 6	A, D	20 ~ 120	3
K1459	DPD-120S	„Slave“	(56 x 106 x 21)	1 ~ 6	A, D	20 ~ 120	-
K1456	DPD-60M	„Master“	(75 x 80 x 22,5)	1 ~ 6	C	12 ~ 60	7
K1457	DPD-60S	„Slave“	(55 x 80 x 22,5)	1 ~ 6	C	12 ~ 60	-
K1450	DPD-30M	„Master“	(76 x 61.5 x 24)	1 ~ 3	B	10 ~ 30	15
K1451	DPD-30S	„Slave“	(76 x 61.5 x 24)	1 ~ 3	B	10 ~ 30	-
K1111-30	DPD-100M	„Master“	(76 x 100 x 21)	1 ~ 5	E	20 ~ 100	3
K1111-31	DPD-100S	„Slave“	(56 x 100 x 21)	1 ~ 5	E	20 ~ 100	-
Slot type	Max dosimeter dimension	Number of slots in each block	Description				
A	(12 x 45 x 95) mm	Block of 20 slots	Narrow slot designed for large applications where hundreds of personal dosimeters are to be stored, e.g. film badge dosimeters.				
B	(32 x 65 x 85) mm	Block of 10 slots	Wide slot for various personal, ring and other types of dosimeters. Keys and small items can also be stored in the slots.				
C	(24 x 40 x 70) mm	Block of 12 slots	Standard slot designed for most of OSL personal dosimeters, or small items.				
D	(12 x 60 x 85) mm	Block of 20 slots	Narrow slot designed for large applications where hundreds of personal dosimeters are to be stored, e.g. film badge dosimeters.				
E	(12 x 45 x 115) mm	Block of 20 slots	High slot designed for large applications where hundreds of personal dosimeters are to be stored, e.g. film badge dosimeters.				
Optional accessories							
K0040-50	Module for dosimeter surface contamination measurement before the dosimeter is returned to the slot						
N/A	SW modules for control/communication with the personnel database						



www.vf.eu

Contact address	Your supplier
<p>Czech Republic VF, a.s., Svitavská 588 CZ 679 21 Černá Hora tel. +420 516 428 611 fax +420 516 428 610 info@vf.eu</p>	<p>Slovak Republic VF, s.r.o., M. R. Štefánika 9 SK 010 02 Žilina tel. +421 415 072 411 fax +421 415 072 410 info@vf.eu</p>