



PED100 - Programmable Electronic Time Delay Fuze



The PED100 System is a versatile, programmable electronic delay fuze designed for use with Group I and insensitive Group II detonators, that has been fully approved as Safe and Suitable for Service (S3). The PED100 System can be programmed by the user for delays between 12 minutes and 100 days for operational fuzes and 1 minute and 10 days for the training version. A high energy fuze, known as a VA, is available for the initiation of Group II (Insensitive Munitions) detonators.

Fuze variants available are:	PED100D	:	Operational Fuze
	PED100T	:	Training Fuze
	PED100D-VA	:	Operational High Energy Fuze
	PED100T-VA	:	Training Fuze High Energy Fuze
	PED100D-M	:	Maritime Operational Fuze
	PED100T-M	:	Maritime Training Fuze
	PED100D-VA-M	:	Maritime High Energy Fuze
	PED100T-VA-M	:	Maritime Training High Energy Fuze

SAFETY FEATURES

Once programmed, the set delay remains within the fuze unless the top ring is rotated from the 'ON' position to the 'OFF' position. In this case, the fuze must be re-programmed before it can be used further. To activate the time delay function of a programmed fuze, all that is required for the timer to begin is to rotate the top ring to the 'START' position, and the external load can then be connected to the terminals. A spring-loaded ball detent will engage, preventing the locking ring from being easily reset. A red LED will illuminate when the fuze is timed out at the target site indicating that there is power at the terminals. A factory-set minimum safety delay is incorporated into all PED fuzes.

OPERATION

Programming is achieved by inserting the Fuze into the Programmer where spring loaded contacts pierce the membrane at the base of the fuze. The membrane is resealed on removal of the fuze from the programmer, thus retaining its water resistant integrity. The intuitive PED100 Programmer features a BIT and will check the fuze at all stages of the programming. Changes to the delay are made by using the "set" or "enter" buttons, following prompts on the Programmer's LCD display. Power for the PED100 Programmer is supplied by a single 9V battery. Maritime versions feature larger contacts thus permitting divers to connect electric detonators whilst wearing thick gloves.

SPECIFICATION

	STANDARD FUZES		HIGH ENERGY FUZE		MARINE VERSIONS
	PED100D	PED100T	PED100D-VA	PED100T-VA	
Size	----- 110 x 40 x 25 mm -----				145 x 45 x 40 mm
Unit Weight	----- 140g -----				190g
Case Material	----- Impact Resistant Noryl -----				
Finish (as standard)	Black/black top	Black/blue top	Green/black top	Green/blue top	As per fuze type
Output connections	----- Integral spring loaded terminals - single circuit -----				External terminals
Controls	----- 3 Position Rotary Switch - OFF/ON/START -----				
Indicators	----- Red LEDs - Indicating energy at terminals -----				
Operating Temp Range	-40°C to +55°C	-10°C to +55°C	-30°C to +55°C	-10°C to +55°C	As per fuze type
Battery Pack	LiMnO2	NiMH	LiMnO2	NiMH	As per fuze type
Immersion	----- Tested to 30 metres -----				
Output Voltage	12V	10V	30V	30V	As per fuze type
Output Energy	0.15J	0.1J	1J	1J	As per fuze type

The Training Fuzes are rechargeable whilst Operational fuzes are supplied charged and have a shelf life of 5 years. The complete kit can be supplied in an optional custom-made, rugged transit case with inserts to fit each item ordered.

Standard PED Fuze System

NSN: 1375-99-978-6653	PED100P (Operational Programmer)
NSN: 1375-99-792-2045	PED100D (Operational Fuze)
NSN: 1375-99-771-5594	PED100T (Training Fuze)
NSN: 6130-99-771-5592	PED100C (Mains Charger)
NSN: 1399-99-903-2085	PED100D-M (Operational Marine Fuze)
NSN: 1390-99-884-6588	PED100T-M (Training Marine Fuze)

High Energy PED-VA Fuze System

NSN: 1375-99-212-3338	PED100P-VA (Operational Programmer)
NSN: 1375-99-847-7025	PED100D-VA (Operational VA Fuze)
NSN: 1375-99-863-4649	PED100T-VA (Training VA Fuze).
NSN: 6130-99-617-4056	PED100C-VA (Mains VA Charger).
NSN: 6645-99-571-2933	PED100D-VA-M (Operational Marine VA Fuze)
NSN: 6930-99-371-1349	PED100T-VA-M (Training Marine VA Fuze)



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