

RASIL DT250

Outdoor Field Tactical Phone

The RASIL DT250 is a rugged, field-deployable communication phone designed for mission-critical voice transmission in environments where modern infrastructure is absent or unreliable. Operable in both analog and auto power modes, it provides point-to-point connectivity without dependence on external power sources. Its vandal-resistant design, submersibility, and tolerance to shock, vibration, and temperature extremes make it the ideal solution for industrial, transportation, and emergency installations.

Compatible Cabling: Fully compatible with Lamatel's D10 field cable, ensuring reliable and interference-free connectivity in mission-critical deployments.

Key Features

Independent Operation

- Manual dynamo crank enables use without any power grid connection
- Cold-resistant R20 batteries ensure startup even in freezing conditions
- Auto mode accepts wide input voltage (24–60V DC) for compatibility with various power systems

Environmental Durability

- IP67 waterproof rating: submersible to 1m for 2 hours
- Vibration and impact resistant: tested for 2,000 hits and prolonged shock exposure
- Extreme temperature performance: -40°C to +85°C storage, -25°C to +60°C operation

Reliable Communication

- Clear analog transmission with DTMF signaling compliance
- Built-in AI-based noise reduction for high intelligibility in noisy areas
- Supports up to 15 talkgroups for operational flexibility

Flexible Integration

- Simple wiring interface with grounding terminal
- Compatible with PoE up to 30W
- Multiple mounting options for surface or pole installation



Key Highlights

- Dual-mode operation: Manual dynamo and auto voltage (24–60V DC) support
- Built-in AI-powered noise reduction for clear voice communication
- IP67-rated waterproof and impact-resistant casing
- Wide environmental tolerance: -40°C to +85°C storage, -25°C to +60°C operation
- Compatible with PoE up to 30W and flexible mounting options
- Seamless integration with Lamatel's D10 ruggedized field cable



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Technical Specifications

Connection Terminals	2 wire terminals + 1 ground
Power Supply	Dynamo: 4.5V (3 x R20); Auto: 24"60V DC, 18"80mA
Min DC Current (Analog)	Compliant
AC Impedance (1000 Hz)	Dynamo: 800±50%; Auto: >350
Communication Range	<35 km (analog), 7 km (auto mode)
Signal Output	>55 Vrms, 25 ±5% Hz per call button press
DTMF Signaling	Meets national standards
Current Draw (AI OFF)	Incoming/Outgoing: standard analog spec
Current Draw (AI ON)	Incoming 30mA; Outgoing 85mA
Operating Temperature	-25°C to +60°C
Storage Temperature	-40°C to +85°C
Humidity Range	10% to 95% RH
Atmospheric Pressure	70 to 106 kPa
Ambient Noise (Max)	75 dB
Waterproof Rating	IP67: submersible 1m for 2 hours
Drop Resistance	6 drops from 1m on 15mm felt over concrete
Vibration Resistance	2h at 0.8mm amplitude, 30Hz
Mechanical Impact Resistance	2,000 impacts @ 0.8N, 80/min

Applications

- **Defense and Military Operations**

Provides reliable voice connectivity for soldiers and command centers in remote or combat zones where infrastructure is unavailable or compromised.

- **Oil & Gas and Energy Sites**

Ensures communication between field operators, safety teams, and control rooms in harsh, high-noise environments.

- **Transportation and Logistics Hubs**

Used in airports, seaports, and railway stations for rugged field communication, even in outdoor or vibration-heavy areas.

- **Emergency and Disaster Response**

Enables rescue teams to establish instant communications in disaster-hit zones where conventional telecoms are down.

- **Industrial and Construction Projects**

Supports coordination of site supervisors and teams in dusty, noisy, and high-impact environments.

- **Remote Infrastructure Monitoring**

Deployed at border posts, pipelines, and substations to provide secure voice links for monitoring and emergency alerts.

