LORIS-T
Long Range Initiation System - Timer

Chemring
Technology Solutions

LORIS-T (Long-range Initiation System - Timer) the next generation radio and time controlled firing system utilising state of the art technology to provide a comprehensive and fully effective remote control military engineering capability.

LORIS-T, an advanced version of securely coded two way radio firing system complete with an integrated programmable time delay initiation capability. LORIS-T also introduces disposable remote initiation devices to the product family for use in sacrificial explosive applications.

LORIS-T has an operating range in excess of 20km line of sight with excellent penetration in complex urban environments.

LORIS-T can be utilised for a wide range of military engineering applications including demolitions/disposal and safe/reliable initiation of remote EED/pyrotechnic devices.

FEATURES

LORIS-T Plus Enhanced Capabilities

LORIS-T incorporates all the features of the standard LORIS system (secure digital radio technology, increased EM immunity, etc) along with additional capabilities for specialist military engineering activities. LORIS-T is a unique, multi-function initiation capability in a single system - exploder level energy output, remote initiation controls and programmable time delayed firing capabilities.

Fully Flexible User Kit Configuration

The kit setup is fully-configurable (prior to usage) by pairing up to ten Remote Initiation Devices with the system Hand Held Controller and a digital safety key. There is no need to define kit quantities at the point of procurement. Increasing the number of RIDs in any field deployed kit, or replacing items sacrificed during usage, can be easily accomodated by the user through the set up and pairing functions.

Time Delay Firing Capability

The user can remotely "set", "start" and "stop" an accurate countdown time function within any RID/DRID device at any timer after deployment. If an external power pack is connected to the RID/DRID, the delay can be extended relative to the power source capacity. At any time after setting the delay, the user can remotely check the set/remaining time delay from the HHC to confirm the real time status update of any RID/DRID devices.

Disposable Remote Initiation Device (DRID)

The DRID can be used in applications where the firing device maybe considered as sacrificial (for applications where the device is not expected to be recovered). The DRID (available in either wire of shock tube output format) includes the main features of the RID with some alternative performance characteristics.

Full LORIS-T capabilities include:

- Intuitive icon based user interface
- System "Safety Key" for enhanced security
- Variable safety time delay period (set by the user - minimum safety delay applies)
- Standard and disposable firing devices
- Fully flexible deployment (setup) configuration options by the user
- High energy wire output and shock tube firing devices available
- Output capability can be individually, in groups or global (ALL) fire mode.
- Accurate programmable time delay initiation function
- Real time remote diagnostics from RID/DRIDs.

Chemring
Technology Solutions

SPECIFICATION

LORIS System	Value
RF Mode	Spread Spectrum - TDM
Available Frequency Bands	VHF - 137 to 175MHz UHF - 410 to 460MHz
Typical Range (line of sight)	>20km
Number of paired firing devices	Up to ten - user configured
Transmission Inhibit	Removable safety key on HHC
Data Coding	CRC, FEC, AES-128

Hand Held Controller	Value
Display type	OLED & LED secondary indication
Approx dimensions	100mm x 195mm x 50mm
Approx weight	700g
Immersion	IP67 (1m, 1hr)
Operating / Storage Temp range	-40 to +63°C / -40 to +71°C
Power	1 Watt (nominal)

Remote Initiation Device	RID-W/ST	DRID-W/ST
Circuit Identity	Set by HHC during pairing (1-10)	
Nominal Energy Output (wire version)	<8 Joules	<3 Joules
Safety timer	1 minute minimum (User Adjustable)	
Dimensions	95(dia)x75mm	160x100x35mm
Approx weight	570 / 610g	390 / 400g
Immersion	IP67 (1m/1hr)	IP65
Operating temperature range	-40 to +63°C	-35 to +63°C
Storage temperature range	-40 to +71°C	-35 to +63°C
Power Source	COTS "123" type batteries/ external USB power pack option	
Range	>20km	<5km

ORDERING

HHC: Hand Held Controller
Stock Number: 800-3524
NSN: 1375-99-846-3118

RID-W: Remote Initiation Device Wire
Stock Number: 800-3527
NSN: 1375-99-959-5034

RID-ST: Remote Initiation Device Shock Tube
Stock Number: 800-3529
NSN: 1375-99-671-3465

DRID-W: Disposable RID Wire
Stock Number: 800-3783
NSN: 1375-99-156-7850

DRID-ST: Disposable RID Shock Tube
Stock Number: 800-3784
NSN: 1375-99-870-3657

MOTD - Multi-Output Terminal Device
Stock Number: 800-3785
NSN: 5940-99-616-0497

TFD - Training Flash Device
Stock Number: 800-3787
NSN: 6920-99-868-0614

STH224/3 Shock Tube Firing Head (3mm)
Stock Number: 800-0746
NSN: 1385-99-241-8804

STH224/3 Shock Tube Firing Head (2mm)
Stock Number: 800-0747
NSN: 1385-99-154-9039

Chemring Technology Solutions Limited
Ordnance House, Blackhill Road, Holton Heath, Dorset BH16 6LW, UK
T: +44 (0)1202 628155
www.theeodshop.com • www.chemringts.com • info@chemringts.com