

MAX-E Electronic Initiation System



TECHNICAL DATA SHEET – INITIATION SYSTEMS

MAX-E Electronic Initiation System

The MAX-E Electronic Initiation System consists of a high-energy detonator with a highly precise chip, an innovative design plastic connector and robust lead wire of varying length. Blasting designs are improved with MAX-E in addition to providing high levels of safety and accurate timing.

APPLICATION

MAX-E Electronic Initiation Systems are suitable for use in blasting operations of surface and underground mining, quarrying and construction projects where precision blasting is required.

KEY BENEFITS

- High safety and security. Only MAX-E Master Devices can blast MAX-E detonators with high current resistance (220V AC, 48V DC and ESD 8000V) and with 10W radio frequency resistance and stray current resistance.
- High accuracy programmable delay time from 0ms to 100ms with ± 1 ms.
- Multi-functional design including online communication, online detection, error alarm and fault location.
- Improvements on blasting design include increasing blasting scale, improving vibration control, achieving better fragmentation, better heave or cast, expanding blast patterns and reduction in explosives consumption.

PHYSICAL PROPERTIES

Authorised Shipping Name	DETONATOR, ELECTRONIC programmable for blasting
Initiating Power	No.8 Detonator (NEQ 1.03g)
Functional Temperature Range	-40°C ~ +80°C
Water Resistance	When immersed underwater at 30m for 72 hours, will function reliably
Tensile Force	When pulled with 78.4N tensile force for one minute, all parts will remain connected reliably (196N for wire)
Delay Times	From 0ms to 16000ms
Ability to Initiate per Blast	7500 pieces
Firing Capability	1000m wired blast or 2000m wireless blast

STORAGE AND HANDLING

Handle and transport the product with great care. It should never be dropped, knocked or subjected to any impact. Store away from all sources of heat in a dry, cool, well-ventilated suitably licenced magazine. The shelf-life of this product is ten (10) years when stored correctly.



TECHNICAL CHARACTERISTICS

Lead Wire – Conductor material	Copper/Tin-coated Copper-clad steel
Lead Wire – Jacket material and thickness	Polyurethane 0.5-0.6mm
Lead Wire - Thickness	3.4mm
Wire – Abrasion resistance (testing in accordance with 13763 European CEN standards)	8.3N of pressure, 8.1N of stretch, 6s
Lead Wire - Elongation	16%
Detonator Shell material	Aluminium Alloy
Detonator Shell size	75mm long, 7.2mm diameter
Connector	Polyethylene, polypropylene, mild steel, waterproof silicone grease

FULL SET OF COMPONENTS



Electronic digital detonator



Logger



Master device



Repeater



Slave-controller

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STANDARD PACKAGING GUIDELINES

WIRE LENGTH	PIECES / CASE
6	50
12	30
15	25
20	20
24	15
30	13
40	10
60	6
Dangerous Goods Class	1.4S
UN Number	0513
Packaging Size	370x260x225mm
Net Weight	7kg
Gross Weight	8kg

MAX-E Electronic Initiation Systems are packed into sealed plastic bags that are packed into corrugated cardboard cases.

STORAGE AND HANDLING

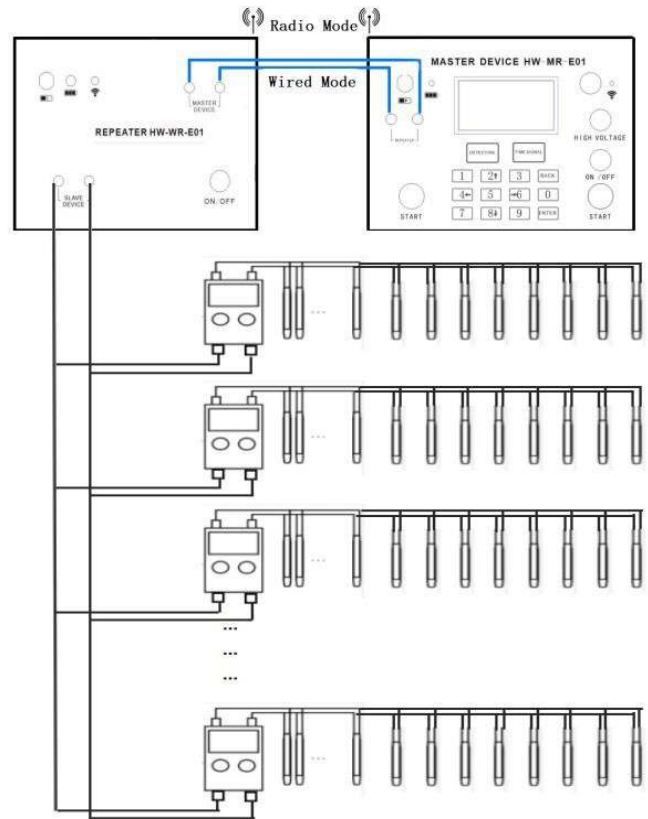
First Aid – Please refer to the Safety Data Sheet for MAX-E Electronic Initiation System, Nitro Sibir Ref IS12.

Safety – All explosives are classified as dangerous goods and must be handled and stored with care. Misuse may result in personal injury and/or damage to property.

Environment – MAX-E control equipment contains rechargeable batteries. Please dispose of the equipment in an environmentally responsible manner. Equipment should be recycled or disposed of in the same way as normal consumer electronics containing rechargeable batteries according to local government requirements.



DIGITAL BLASTING SYSTEM



TDS: IS14

VERSION: 2.0 LAST UPDATED: 09/21
---- END OF TDS ----

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