



# IGNEO™ HTD150

## IS2 Electronic Mining Detonator

Revised July.31.2020

### Description

The Igneo™ HTD150 Mining Detonator is an Intrinsically Safe™ detonator with programmable electronic delay, designed for high-temperature mining applications. The HTD150 is immune to radio frequency, stray current and stray voltage. The detonator is pressure sealed inside a copper shell with anti-corrosion coating making it suited for high temperature and reactive ground conditions.

Operation is only possible with the suitable Igneo Digital Firing Panel.

### Electrical Parameters

Resistance:  $62 \pm 1 \text{ k}\Omega$

Operation only possible with the suitable Igneo Digital Firing Panel

### Safety Tested

Against static electricity: 2,500 PF 30 KV 2  $\Omega$

Against radiated electromagnetic field: 10 kHz - 4 GHz, 100 V/m

### Temperature and Pressure Resistance

150 °C / 3 bar / 48 hrs

302 °F / 43.5 psi / 48 hrs

### Time Delay

User programmable, 1 ms to 600 ms in 1 ms steps

### Clip Connector

For harness wire with an inner core diameter of  $\emptyset 0.6 \text{ mm} / 0.023''$

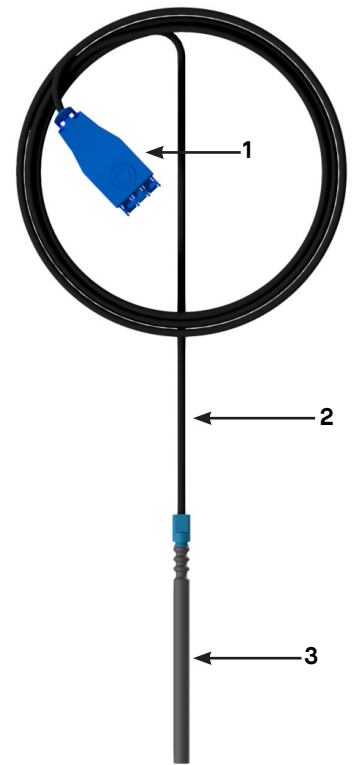
### Cable

10 m / 32 ft long double coated cable with an inner core diameter of  $\emptyset 0.6 \text{ mm} / 0.023''$

### Explosives

Primary Charge: 80 mg PbN6 | 1.23 grains

Base Charge: 660 mg HMX | 10.19 grains



1. Harness Clip
2. 10 m Double Coated Cable
3. Detonator Igneo HTD150

**Packing Information**

ELECTRONIC DETONATOR	
Part Number	2329658
Quantity Per Box	40 pcs
Gross Weight Per Box	10.10 kg / 22.70 lbs
Net Weight Per Box	7.60 kg / 16.75 lbs
NEC Per Box	0.03 kg / 0.66 lbs
Box Dimensions	43 cm x 29 cm x 30 cm 16.93" x 11.42" x 11.81"
Product Weight	0.19 kg / 0.42 lbs
Package Type	Fiberboard Box
Classification	1.4B
UN Number	0255

**Note:**

*+/- 5% tolerance in weight*

*Shelf life is 5 years at -40 °C to +60 °C / -40 °F to +140 °F storage temperature with maximum 65% relative humidity and good ventilation*

*Explosives should be destroyed only by authorized persons and in accordance with all applicable laws, regulations and company procedures*



# IGNEO™ HTD150

## IS2 Electronic Mining Detonator with Booster Charge

Revised July.30.2020

### Description

The Igneo™ HTD150 Mining Detonator is an Intrinsically Safe™ detonator with programmable electronic delay, designed for high-temperature mining applications. The HTD150 is immune to radio frequency, stray current and stray voltage. The detonator is pressure sealed inside a copper shell with anti-corrosion coating.

Used together with the specially designed Igneo Booster Charge, the detonator can reliably and safely initiate loaded blast holes without the need for sensitized booster emulsions. All components are corrosion and temperature resistant and can be used in high temperature and reactive ground conditions.

Operation is only possible with the suitable Igneo Digital Firing Panel.

### Temperature and Pressure Resistance

150 °C / 3 bar / 48 hrs

302 °F / 43.5 psi / 48 hrs

### Time Delay

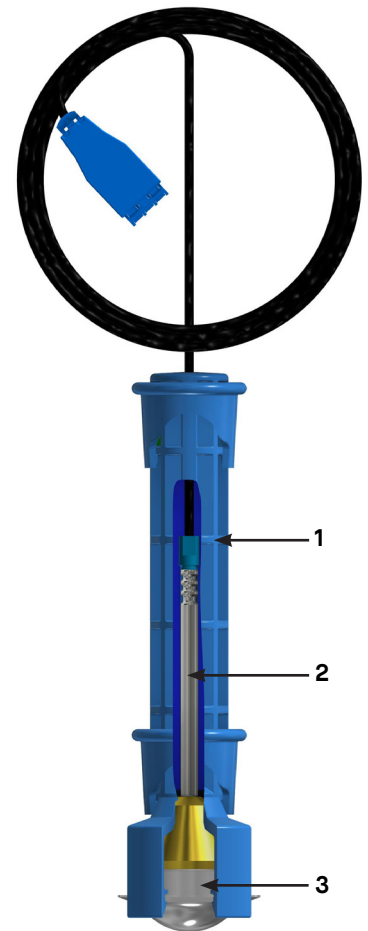
User programmable, 1 ms to 600 ms in 1 ms steps

### Clip Connector

For harness wire with an inner core diameter of  
 $\varnothing$  0.6mm / 0.023"

### Cable

10m / 32ft long double coated cable with an inner core diameter of  $\varnothing$  0.6 mm / 0.023"



1. Booster Housing Kit
2. Electronic Detonator
3. Booster Charge

## Packing Information

	ELECTRONIC DETONATOR	BOOSTER CHARGE	BOOSTER HOUSING KIT
Part Number	2329658	2328745	2330327
Quantity Per Box	40 pcs	50 pcs	50 pcs
Gross Weight Per Box	10.10 kg / 22.70 lbs	14.45 kg / 31.86 lbs	7.00 kg / 15.43 lbs
Net Weight Per Box	7.60 kg / 16.75 lbs	12.25 kg / 27.01 lbs	6.50 kg / 14.33 lbs
NEC Per Box	0.03 kg / 0.07 lbs	1.15 kg / 2.54 lbs	N/A
Box Dimensions	43 cm x 29 cm x 30 cm 16.93" x 11.42" x 11.81"	40 cm x 40 cm x 16 cm 15.75" x 15.75" x 6.30"	55 cm x 26 cm x 36 cm 21.65" x 10.23" x 14.17"
Product Weight	0.19 kg / 0.42 lbs	0.24 kg / 0.53 lbs	0.13 kg / 0.29 lbs
Package Type	Fiberboard Box	Fiberboard Box	Fiberboard Box
Classification	1.4B	1.4D	N/A
UN Number	0255	0440	N/A

*Note:**+/- 5% tolerance in weight**Shelf life is 5 years at -40 °C to +60 °C / -40 °F to +140 °F storage temperature with maximum 65% relative humidity and good ventilation**Explosives should be destroyed only by authorized persons and in accordance with all applicable laws, regulations and company procedures*



## Description

The Igneo™ Digital Firing Panel has been specifically designed to initiate the DynaEnergetics high temperature resistant mining detonator, Igneo HTD150. The highly intuitive panel allows the operator to safely test and reliably initiate simultaneously up to 1000 detonators connected to the panel's firing circuit five channels.

A wired or wireless trigger can be used to provide the firing signal to the panel.

## Features

- Intrinsically Safe™
- Battery powered for unrestrained mobility
- Packed inside an easily transportable and robust case
- Sturdy design and tough construction to withstand the most challenging operating conditions



## Specification

IGNEO DIGITAL FIRING PANEL	
Part Number	2330322
Diameter	65 cm x 50 cm x 20 cm / 25.6" x 19.7" x 7.9"
Weight	16.5 kg / 36.4 lbs
Operating Temperature	-20 °C to +60 °C / -4 °F to 140 °F
Storage Temperature	0 °C to +40 °C / 32 °F to 104 °F
Maximum Output Voltage of the Firing Circuit	+/-48 V
Maximum Output Current of the Firing Circuit	+/-480 mA
Maximum Output Current in Test Mode	+/- 50 mA
Maximum Input Voltage of the Trigger	+/-14 V

*Note: Product condition must be inspected to ensure proper service in accordance with DynaEnergetics guideline. Failure to do so may result in personal injury and/or property damage. For questions please contact your DynaEnergetics representative.*



# IGNEO™ PROGRAMMING AND TESTING DEVICE

Revised July.31.2020

## Description

The Igneo™ Programming and Testing Device has been specifically designed to safely and securely program and test the HTD150 Mining Detonator. The blast pattern can be setup either manually, directly on the device, or, in a more convenient way, using the dedicated computer software. The programming of the time delay is performed directly after connecting each detonator to the harness. Every detonator can be individually tested while still connected to the harness, giving the operator the peace of mind that each detonator is correctly programmed and wired.

## Features

- Intrinsically Safe™
- Battery powered for unrestrained mobility
- Sturdy design and tough construction to withstand the most challenging operating conditions
- Blast pattern setup on either the device or using the dedicated computer software
- Up to 50 detonators can be checked while connected to the same harness
- Safely checks the entire system, including the programmed time delay and faulty wiring



## Specification

IGNEO PROGRAMMING AND TESTING DEVICE	
Part Number	2330323
Weight with Batteries	1.5 kg / 3.5 lbs
Dimensions L x W x H	180 mm x 120 mm x 51 mm / 7" x 4.7" x 2"
Material	Aluminium
Drop Tested	1.5 m / 5 ft
Waterproof	IP 67
Operating Temperature	-20 °C to +60 °C / -4 °F to 140 °F
Batteries	8 x AA (1.5 V)
Terminals	2 x 4 mm Plugs
Maximum Output Voltage	+/- 15 V
Maximum Measurement Current	+/- 100 mA
Delivered with	USB Cable for Computer Connection