

SmartShot



Product Description

SmartShot is the latest advancement in precise electronic initiation system. The SmartShot system offers innovative features including wireless remote blasting and complete timing flexibility. Specialised waterproof and dirt displacing connectors ensure quick, easy and reliable connections, and prevent leakage.

SmartShot Detonator

To hook up, the male connector of one unit simply snaps into the female connector of the next unit, and so on, along a row.

SmartShot Base Station

Used to initiate the blast remotely from a safe distance. The PIN protected SmartKey must be docked in the Base Station to arm and fire the shot.

SmartShot Bench Box

The receiver unit that allows remote firing via radio frequency from the Base Station, passing the signal onto the detonators in order to initialise the blast.

String Starter

Connected between the blast and the Bench Box to interface 2-wire with 4-wire communication. It will also assist in identifying any faults.

End Plug

Connected to the end of each string to indicate the end of a string to the control equipment

SmartShot Tagger

Hand-held unit to test and assign timings to individual detonators and defines the hole configuration.



Technical Information

SmartShot Detonators

Downline x Surface Length Metres	Units per case	Packaging Dimensions	Shipping Classification
10 x 7	18	480 x 215 x 245mm	1.4S
20 x 10	18	480 x 215 x 245mm	1.4S
20 x 15	18	480 x 215 x 245mm	1.4S
35 x 0.2	18	480 x 215 x 245mm	1.4S
45 x 0.2	18	480 x 215 x 245mm	1.4S
60 x 0.2	8	480 x 215 x 245mm	1.4S
80 x 0.2	8	480 x 215 x 245mm	1.4S

I-40-1-25-08
See Product Disclaimer on next page.



SmartShot

SmartShot Accessories

	Units per case	Dimensions of Packaging (millimetres)
SmartShot Base Station	1	523 x 375 x 260mm
SmartShot Bench Box	1	523 x 375 x 260mm
String Starters & End Plugs	10	200 x 165 x 92mm
Smart Keys	1	146 x 86 x 38mm
Tagger Lite	1	300 x 250 x 140mm
Connection Block and Cable	10	200 x 165 x 92mm

Properties

System Limits

Maximum Total Delay Time	20 000 milliseconds
Maximum Number of Detonators	1600*
with expander module	24000*
Lead-in Length (wireless)	3000m*
Lead-in Length (wire)	2000m*
Maximum In-hole Lead Length	80m / 260ft

*Dependant on shot layout, please refer to training manual before use

Detonator

Dynamic Shock Resistance	>12,000psi 500ns pulse width
ESD Resistance	Passes EN 13763-13
RF Immunity	Passes CEN TS 13763-27
Detonator Shell	Copper
Detonator Strength	8D (I.M.E.:#12) Strength
Base Charge	PETN
Net Explosive Quantity (NEQ)	0,1KG (0.2205 lbs.) per 100 detonators
Timing	Fully programmable and Auto-programmable
Connector	Rugged, water resistant
Tensile Strength	>250 N / 53 lbs
Detonator Shell Marking	Dangerous - Blasting Cap - Explosive Danger - Detonator - Explosif

Packaging

UN Shipping Classification	1.4S
Detonator Configurations	Coil
Cable Colour	Green with a coloured stripe

Transportation, Storage and Handling

SmartShot must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.

For maximum shelf life (2 years), SmartShot must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet "Prevention of Accidents in the Use of Explosive Materials" packed inside each case and the Safety Library Publications of the Institute of Makers of Explosives.

Product Disclaimer Tenaga Kimia Sdn Bhd, its subsidiaries and distributors disclaim any warranties with respect to this product, the safety or suitability thereof, or the results to be obtained, whether express or implied, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR OTHER WARRANTY. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries (including death), losses, or damages to persons or property arising from the use of this product. Under no circumstances shall TKSB, subsidiaries and distributors be liable for special, consequential or incidental damages or for anticipated loss of profits.



TENAGA KIMIA SDN BHD (26191-A)

No. 8, Jalan SS 22/21, Damansara Jaya, 47400 Petaling Jaya, Selangor Darul Ehsan, Malaysia.
OR P.O. Box 11674, 50754 Kuala Lumpur. Tel: 03-7729 7464 Fax: 03-7729 8383
Email: tkb@tenagakimia.com Website: www.tenagakimia.com