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**i-kon™ II System Hardware**

**i-kon™ II Logger**  
**SAP Code: XREL**

A hand held logging and testing device capable of logging a maximum of 200 i-kon™ II detonators per i-kon™ II Logger. An inherently safe device used on bench to communicate and assign delay times and firing sequences to i-kon™ II detonators.

i-kon™ II Logger unit includes:
- i-kon™ II Logger charger
- i-kon™ II Logger cable
- Blue nylon carry bag

**i-kon™ II Blaster 400**  
**SAP Code: XB400E**

A hand held device able to provide the voltage and digital signal required to fire up to 400 i-kon™ II detonators via two i-kon™ II Loggers from a safe location.

i-kon™ II Blaster 400 unit includes:
- i-kon™ II Blaster 400 charger
- i-kon™ II Blaster 400 firing key
- Red nylon carry bag

**i-kon™ II Blaster 2400S**  
**SAP Code: XB2400S**

The Blaster 2400S is used to charge, program and control the firing of i-kon™ II detonators. The Blaster 2400S can fire up to 2,400 detonators on 12 Loggers individually and 4,800 detonators when synchronised to another Blaster (2 x Blaster 2400S working together via a master slave system). Not capable of remote firing.

i-kon™ II Blaster 2400S unit includes:
- i-kon™ II 2400S firing key
- i-kon™ II Blaster 2400S charger
i-kon™ II Surface Remote Blasting System (SURBS) with Easy Modem  
**SAP Code:** XRESURBBEM

The first component of the i-kon™ II Surface Remote Blasting System (SURBS) which allows the initiation of surface blasts from a safe line of sight location. Also pictured is the i-kon™ II dongle, a feature to enable encrypted communications between i-kon™ II blast control hardware, thus ensuring improved security. The SURBB provides the voltage and digital signal required to fire up to 2400 i-kon™ II detonators via 12 Loggers.

i-kon™ II SURBB unit includes:
- i-kon™ II SURBS antenna
- i-kon™ II SURBS battery charger
- i-kon™ II SURBS antenna elbow
- i-kon™ II SURBS dongle (black)

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i-kon™ II Blaster 2400R with Easy Modem  
**SAP Code:** XREB2400REM

The second of the i-kon™ II SURBS components, the Blaster 2400R is the master firing unit used to remotely control the Surface Remote Blast Box (SURBB), capable of firing up to 2400 detonators.

i-kon™ II 2400R unit includes:
- i-kon™ II SURBS antenna
- i-kon™ II SURBS battery charger
i-kon™ II Centralized Electronic Blasting System (CEBS)
Remote Blast Boxes (RBB)

The CEBS consists of Remote Blast Box (RBB) and a Lock Box (LB) together with an i-kon™ II Logger. The system utilizes the mine’s existing communication infrastructure (analogue telephone, Leaky Feeder, or WLAN/LAN) to remotely initiate underground blasts from a safe firing point. The RBB provides the voltage and digital signal required to fire up to 2400 i-kon™ II Detonators. i-kon™ II CEBS can be used via: Analogue telephone, Leaky Feeder or LAN/WLAN.

i-kon™ II Analogue Telephone Remote Blast Box (RBB)
SAP Code: XREDCBSR
i-kon™ II Remote Blast Box (RBB) unit includes:
- i-kon™ II RBB Key
- i-kon™ II RBB cable to phone modem
- i-kon™ II RBB battery charger
- i-kon™ II RBB smart dongle (white)

Analogue Telephone CEBS System

i-kon™ II LAN/WLAN Remote Blast Box (RBB)
SAP Code: XREDCBSRLW
i-kon™ II Remote Blast Box (RBB) unit includes:
- i-kon™ II RBB Key
- i-kon™ II RBB LAN modem cable.
- i-kon™ II RBB battery charger
- i-kon™ II RBB smart dongle (white)
- i-kon™ II WLAN antenna

LAN/WLAN CEBS System

i-kon™ II Leaky Feeder Remote Blast Box (RBB)
SAP Code: XREDCBSRLFUHFNA (UHF Modem)
SAP Code: XREDCBSRLFNA (VHF Modem)
i-kon™ II Remote Blast Box (RBB) unit includes:
- i-kon™ II RBB Key
- i-kon™ II RBB LF Radio modem (internal)
- i-kon™ II RBB battery charger
- i-kon™ II RBB smart dongle (white)
- i-kon™ II Leaky feeder antenna

(RBB has a binding post protect, not picture available)

Leaky Feeder CEBS System
i-kon™ II Centralized Electronic Blasting System (CEBS) Lock Boxes (LB)

The CEBS Lock Box integrates with a central blasting software package housed on the blast controller’s computer to control the CEBS Remote Blast Box. Capability of firing up to 2400 detonators. Communication is via the mines existing communication system, either: Analogue, Leaky Feeder or LAN/WLAN.

i-kon™ II Analogue Telephone Lock Box (LB)
SAP Code: XREDCBSL
i-kon™ II CEBS Lockbox unit includes:
- i-kon™ II Lock Box key
- i-kon™ II Lock Box modem
- i-kon™ II Lock Box telephone cable
- i-kon™ II Lock Box power cord
- i-kon™ II Lock Box communication cable
- i-kon™ II Lock Box master dongle (green)

i-kon™ II LAN/WLAN Lock Box (LB)
SAP Code: XREDCBSLLW
i-kon™ II CEBS Lockbox unit includes:
- i-kon™ II Lock Box key
- i-kon™ II Lock Box power cord
- i-kon™ II Lock Box communication cable
- i-kon™ II Lock Box master dongle (green)

i-kon™ II Leaky Feeder Lock Box (LB) (UHF & VHF)
SAP Code: XREDCBSLLFUHF (UHF Modem)
SAP Code: XREDCBSLLF (VHF Modem)
i-kon™ II CEBS Lockbox unit includes:
- i-kon™ II Lock Box key
- i-kon™ II Lock Box modem
- i-kon™ II Lock Box power cord
- i-kon™ II Lock Box communication cable
- i-kon™ II Lock Box master dongle (green)

i-kon™ II CEBS Head End Modem Leaky Feeder (UHF & VHF)
SAP Code: XREDCBSHMLFUHFNA (UHF Modem)
SAP Code: XREDCBSHMLFNA (VHF Modem)
Includes:
- i-kon™ II Head End modem (UHF & VHF)
i-kon™ II Accessories

i-kon™ II SHOTPlus™ 5 Standard Software
Software link and Product key can be requested via e-mail to:
luis.cares@orica.com
SAP Code:
XSP5 SHOTPlus 5 Standard
XSP5PREMIER SHOTPlus 5 Premier Installation Fee
XSP5PREMIERLIC SHOTPlus 5 Premier Annual License Fee
XSPLUSUG SHOTPlus 5 Underground 1 year Lease
SHOTPlus™-i is a Windows® compatible blast initiation sequence program
designed exclusively for use with the i-kon™ II Digital Energy Control
System. SHOTPlus™-i, SHOTPlus™ UG and SHOTPlus™ 5 (applications
can be downloaded via the Blaster Desk Top) provides a simple and
convenient way to design, analyse and optimise i-kon™ II blasts. The highly
visual interface makes the program easy to use and provides full Windows®
functionality.

EBS XS880 SERIAL Converter, USB 2.0 TO RS232
SAP Code: XEBUSUSB2RS232
Serial (RS232) to USB converter, compatible with:
Windows 7 32/64, Vista 32/64 & XP32/64.

EBS Connection Box
SAP Code: XEBSCB
The EBS connection box is to connect multiple Loggers to the firing cable.
Connect Loggers to the ports 1 to 6. If you have more than 6 Logger, connect
another EBS Connection box to the "IN" terminals and Connect the firing
cable to the "OUT" terminals.

i-kon™ II Field Connector MGP5
SAP Code: 30003243
A bag of 100 insulation displacement blue connectors to carry signal from the
i-kon™ II detonator to i-kon™ II duplex harness wire.
i-kon™ II Field Connector MGP5 with 100g Grease Tube
SAP Code: 30003244

A bag of 100 insulation displacement blue connectors to carry signal from the i-kon™ II detonator to i-kon™ II duplex harness wire, including a Tube of 100g of Silicone Grease.

EBS Silicone Grease
SAP Code: XEBSSSTSC444

100g Tube of T-SC Silicone Grease to insulate the harness wire connection to the MGP5 IDC Connector Terminals

i-kon™ II CEBS Analogue Lockbox modem spare
SAP Code: XREDCBSM

The Kit contains:
- Modem
- Cable (connected)

i-kon™ II Copy Cable
SAP Code: XCCB

Cable is used to copy data contained on one i-kon™ II Logger to another i-kon™ II Logger. Used to set-up frequency synchronization between a Blaster 2400R and a Surface Remote Blasting Box.
**i-kon™ II Synchronisation Cable**  
**SAP Code:** XSYNCF  
Synchronisation cable is used to link two i-kon™ II Blaster 2400S together to fire up to 4,800 i-kon™ II detonators over 24 i-kon™ II Loggers.

**i-kon™ II Download Cable**  
**SAP Code:** XDCA  
3.25 feet (1 meters), Typ A  
XDCA6  
6 feet (1.83 meters)  
Cables used for data transfer between the i-kon™ II Logger and Orica SHOTPlus™-i program, which downloads reports from i-kon™ II Loggers and Blast Boxes to a computer.

**i-kon™ II Stethoscope Cable**  
**SAP Code:** XSTETHCBLII  
Allows for quick connection between i-kon™ & i-kon™ II Logger and i-kon™ II harness wire for trouble shooting.

**i-kon™ II Connection Cable Logger to Blaster**  
**SAP Code:** XCONCD  
Spare connection cable from logger to the blasting equipment.

**i-kon™ II 90° Connection Cable Logger to Blaster**  
**SAP Code:** XCONCDII90  
Spare connection cable from logger to the blasting equipment.
i-kon™ II Banana plug to alligator clip test lead
SAP Code: XEBSBPACTL

i-kon™ II Logger to Splice Cable
SAP Code: XRELSCII

i-kon™ II Spare RBB Phone Cable, Heavy Duty, 10’
SAP Code: XRBBXCBBL

i-kon™ II Spare RBB Phone Cable, Heavy Duty, 3’
SAP Code: XRBBXCBLS

i-kon™ II Spare LB Analogue Phone
SAP Code: XAPC3M
Cable, 4.3m / 14Ft - RJ-11 6P4C Modular Straight Cable.
i-kon™ II Spare RBB cable to LAN modem
SAP Code: XREDCBSRLWCBL

i-kon™ II Spare LB cable to LAN modem.
SAP Code: XCAT5ENC
CAT5E Network Cable, 3m / 10Ft Cat5e, 350Mhz, Snag less Patch Cable, White

i-kon™ II Logger/ i-kon™ II Blaster 400 Charger
SAP Code: XCHGRH
Charger for i-kon™ II Logger/ i-kon™ II Blaster 400, output 12V DC/1.25A, input 100-240V AC.

i-kon™ II Blaster 2400S Charger Typ G
SAP Code: XCHGRG
Charger for i-kon™ II Blaster 2400S, output 15V DC/1.20A, input 100-240V AC.

i-kon™ II SURBS/B2400R Charger
SAP Code: XCHGRSURBB
i-kon™ II SURBS charger can be used for SURBB and B2400R, output 15V DC/1.20A, input 100-240V AC.
i-kon™ II CEBS RBB Charger
SAP Code: XCHGRRBB

i-kon™ II CEBS charger can be used for RBB, output 15V DC/1.20A, input 100-240V AC.

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i-kon™ II Vehicle Charger for Logger or Blaster 400
SAP Code: XVCHGR400

i-kon™ II vehicle charger cable to charge i-kon Loggers and Blasters 400

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i-kon™ II 2.2 KΩ Resistor
SAP Code: X2K2BLTII

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EBS Protective Cable End CAP
SAP Code: XEBSPCEC

End Cap to protect binding connector for all EBS cables.
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<th>Product Name</th>
<th>SAP Code</th>
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<tr>
<td>EBS Sling Bag</td>
<td>XREOBAGWP</td>
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<tr>
<td>A specially designed Yellow Sling Bag with a side Pocket to assist deployment of the EBS system at the face or on bench. Designed to deploy a single reel of the draw-from-centre harness wire. Side pocket can be used to carry accessories, tools and/or equipment.</td>
<td></td>
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<tr>
<td>i-kon™ II  Logger Nylon Carry Bag (Blue)</td>
<td>XBAGLOG</td>
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<td>A specially designed carry bag with strap to keep i-kon™ II Logger dry and free from dust and grease.</td>
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<td>i-kon™ II  Blaster 400 Nylon Carry Bag (Red)</td>
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<td>A specially designed carry bag with strap to assist keeping i-kon™ II Blaster dry and free from dust and grease.</td>
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<td>i-kon™ II  Logger Winter Pouch</td>
<td>XRELWP</td>
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<td>A specially designed carry bag with a pocket to insert a heating pad to keep i-kon™ II Logger warm when used in extremely cold conditions.</td>
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**EBS logging harness Components kit**  
*SAP Code: XAC01994*

A specially designed logging harness to support a left and right sling bag, a Logger II carrying bag and an extension cable.

These parts can be purchased separately as shown below.

**EBS Shoulder Harness**  
*SAP Code: XAC01993*

A specially designed shoulder harness that can be ordered separately.

**EBS Logger II Carrying Bag**  
*SAP Code: XAC01994*

A specially designed carry bag with strap to keep i-kon™ II Logger II dry and free from dust and grease. This carry bag can be used with the EBS Shoulder Harness or by itself.

- Including Neck Sling
EBS Black Right sling bag  
SAP Code: XAC01967

EBS Black Left sling bag  
SAP Code: XAC01968

A specially designed Black Sling Bags with a side Pockets to assist deployment of the EBS system at the face or on bench. Designed to deploy a single reel of the draw-from-centre harness wire. Side pocket can be used to carry accessories, tools and/or equipment.

EBS Extension Cable  
SAP Code: XEBSCWWPEC

90° Banana plugs to MGP5 i-kon™ II Connector

EBS Carry Bag Straps  
SAP Code: XRESTRAP

A spare strap to be used with: i-kon™ II Logger, i-kon™ II Blaster400, OSEIS Tester and shooter bags.
i-kon™ II EBS CEBS RBB Binding Post Protector Kit
SAP Code: XRBBBPPK
Bracket to protect the CEBS RBB binding post.

EBS Connector Dock
SAP Code: XILOGIID
The EBS Connector Dock is an i-kon™ accessory that can ONLY be used for i-kon™ II type connectors. It is a tool for logging the detonator without the need to open the connector (i-kon™ II connectors only).

EBS Antenna (440-470MHz) 12” TNC
SAP Code: XSURBSPRANT
A spare antenna for i-kon™ II SURBB and i-kon™ II Blaster 2400R.

i-kon™ II TNC Magnetic Mobile Antenna Base
SAP Code: XRTNCMMAB
i-kon™ II Magnetic Antenna Base & 12’ (3.6m) cable – note: this can be used with either the Blaster 2400R or with the SURBB. Note: antenna is ordered separately.
**i-kon™ II SURBS Antenna Elbow**  
*SAP Code: XSURBSWST*

An antenna elbow to connect the i-kon™ II SURBB antenna to the side of the blast box.

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**i-kon™ II CEBS LF Antenna**  
*SAP Code: XLFVHFDP TX153  Tx153  XLFVHFDP TX163  Tx163  XLFVHFDP TX172  Tx172*

- TX 153: Transmit frequency range 148-159 MHz
- TX 163: Transmit frequency range 157-169 MHz
- TX 172: Transmit frequency range 166-174 MHz

A dipole antenna used in the CEBS.

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**i-kon™ II CEBS LF Antenna Magnetic Base**  
*SAP Code: XLFDPAMB*

A Meglab antenna Magnetic Base used in the CEBS. Leaky Feeder Antenna Magnetic Base comes with 10’ (25.4cm) cable and male BNC connector.

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**i-kon™ II CEBS LF Cable**  
*SAP Code: XLFDPPCA*

A Meglab Cable used in the CEBS. Leaky Feeder 5’ (12.7cm) Cable with M/M BNC Connector.  
(From Head End Modem to Head End monitor cabinet)
i-kon™ II CEBS LF Cable  
SAP Code: XLFDPDC  
A Meglab Cable used in the CEBS. Leaky Feeder 34’ (86.36cm) Cable with M/F connector. (From Lock Box Modem to Magnetic Antenna)

### Dongle and Keys

**i-kon™ II SURBS Dongle (Black)**  
SAP Code: XSURBS  
A component of the i-kon™ II SURBS which allows the initiation of surface blasts from a safe line of sight location. Encrypted communications between i-kon™ II blast control hardware, thus ensuring improved security.

**i-kon™ II RBB Smart Dongle (White)**  
SAP Code: XRBBSPRDGL  
A component of the i-kon™ II CEBS which allows the initiation of underground blasts from a control location on the surface. A random 32 bit digital key code of the Remote Blast Box is written to the i-kon™ II Smart Dongle every time the Remote Blast Box is restarted.

**i-kon™ Lockbox Master Dongle (Green)**  
SAP Code: XCBSSMSTRD  
A component of the CEBS software package housed on the blast controller’s computer to control the CEBS Remote Blast Box. Inserted into i-kon CEBS LockBox at blast time.

**i-kon™ Lockbox Master Dongle (Green)**  
SAP Code: XCBSSMSTRDI11  
A component of the CEBS software package housed on the blast controller’s computer to control the CEBS Remote Blast Box. Inserted into i-kon II CEBS LockBox at blast time.

**i-kon™ II Blaster 400 Firing Key**  
SAP Code: XB400DONG  
Firing key required to activate communications and initiate the blasting sequence when using the Blaster 400.  
Note: a i-kon Blaster 400 key has a black cap
i-kon™ II Blaster 2400S Firing Key  
SAP Code: XB2400SKEY

Firing key that must be inserted into the i-kon™ II Blaster 2400S to initiate the blasting sequence. It has a white plastic cap as pictured.

i-kon™ II Logger Beep Booster  
SAP Code: XBEERPP1

Amplifies the i-kon™ II Logger’s beep for logger confirmation.

i-kon™ II Lockbox/Remote Blast Box Spare Key  
SAP Code: XCEBSKEY

Key that must be inserted into the i-kon™ II Remote Blast Box ON/OFF switch and also inserted into the Lockbox Emergency Stop switch. Both are needed to activate communications and initiate the blasting sequence. A set is included for both RBB and Lockbox when purchased. The keys are interchangeable.

EBS i-kon™ II /OSEIS equipment binder cap  
SAP Code: XEBSIOEBC

Binder cap to protect the binder Logger & Blaster400 connector.

EBS Wire Deployment Tool  
SAP Code: XEBSWDT

The wire deployment tool is to be used by blasters for wire deployment of EBS products on spools. The tool consists of a durable aluminum tube with ergonomic handle, attached to a retractable belt clip. The wire deployment tool is intended to be a portable and easy to use alternative to the wooden rod found in each case of i-kon product on spools. The tool will provide an improved wire deployment experience that blasters will love to use.
Training Aids

**i-kon™ II Dummy Puck**

**SAP Code:**
- XPUCKDUMMYII  (20cm)
- XPUCKIIHIGH  (20cm with High leakage)
- XPUCKIILOW  (20cm with Low leakage)

Dummy i-kon™ II detonator series display used for training purposes.

**EBS Universal Training Puck**

**SAP Code:** XEBSPUCKDUMMY

Dummy EBS detonator series display used for training purposes. It can be used as a i-kon II, uni tronic 600 and eDev II training puck.

**EBS Universal dummy puck with a latch on LED.**

**SAP Code:** XPUCKDUMMYLED

This universal dummy puck has features including a latching “fired” indication, an automatic LED reset after a period of 1 hour to save battery power, plus a pushbutton for resetting the “fired” indication. It can be used as a i-kon II, uni tronic 600, eDev II and oseis II training puck. A replaceable lithium battery providing 150 hours of continuous LED operation.
## EBS Cold Weather Warming Pouch (CWWP)

### EBS Cold Weather Warming Pouch for Logger I

**SAP Code:** XEBSCWWP1

The Cold Weather Warming Pouch (CWWP-1), is designed to contain a Logger or Tester, or B400 or Shooter II or RDI tester and keep it at a reliable operating temperature in subzero conditions. It is designed so they can be operated while still inside the CWWP-1. The heater in the pouch is powered by a rechargeable 12VDC battery. Connections are made via sealed locking connectors.

### EBS Cold Weather Warming Pouch for Logger II

**SAP Code:** XEBSCWWP2

The Cold Weather Warming Pouch (CWWP-2), is designed to contain a Logger II or Tester III, or Scanner 260 or Scanner 200 and keep it at a reliable operating temperature in subzero conditions. It is designed so they can be operated while still inside the pouch. The heater in the pouch is powered by a rechargeable 12VDC battery. Connections are made via sealed locking connectors.

The following Ext Cable must be order to complete The Cold Weather Warming Pouch kit Logger II.

### EBS Cold Weather Warming Pouch Ext Cable

**SAP Code:** XEBSCWWPEC

90° Banana plugs to MGP5 i-kon™ II Connector

### EBS Cold Weather Warming Pouch Spare Battery

**SAP Code:** XEBSCWWPSB

Spare rechargeable 12VDC battery

### EBS Cold Weather Warming Pouch Charger

**SAP Code:** XEBSCWWPC

Spare battery 12VDC charger

### EBS Cold Weather Warming Pouch Ext Cable for Logger II

**SAP Code:** XEBSCWWPEC

90° Banana plugs to MGP5 i-kon™ II Connector
EBS Cold Weather Warming Box (CWWB)

For SURBBS & (12x) Logger I

**SAP Code:** XEBSCWWB

The Cold Weather Warming Box (CWWB), is designed to contain a SURBB and a full complement of 12 loggers I and keep them at a reliable operating temperature in subzero conditions. It is designed so after the logging process is complete the equipment can be closed inside the boxes and all connections to the det. network are made externally.

The heater in the box is powered externally from a 12VDC battery or the 12VDC supply portion of a gas generator. Connections are made via sealed locking connectors.

(Pelican Case 1690 Dimension W: 33.36" H: 18.23" D: 28.44")

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EBS Cold Weather Warming Box (CWWB-2)

For i-kon II Blaster 3000

**SAP Code:** XEBSCWWB2

The Cold Weather Warming Box (CWWB-2), is designed to contain a B3000 and keep them at a reliable operating temperature in subzero conditions. It is designed so after the logging process is complete the equipment can be closed inside the boxes and all connections to the det. network are made externally.

The heater in the box is powered externally from a 12VDC battery or the 12VDC supply portion of a gas generator. Connections are made via sealed locking connectors.

(Pelican Case 1610 Dimension W: 24.83" H: 11.88" D: 19.69")
EBS Cold Weather Warming Box (CWWB-3)
For (12x) i-kon Logger I

**SAP Code: XEBSCWWB3**

The Cold Weather Warming Box (CWWB-3), is designed to contain a full complement of 12 logger I’s and keep them at a reliable operating temperature in subzero conditions. It is designed so after the logging process is complete the equipment can be closed inside the boxes and all connections to the det. network are made externally. The heater in the box is powered externally from a 12VDC battery or the 12VDC supply portion of a gas generator. Connections are made via sealed locking connectors.

(Pelican Case 1610 Dimension W: 24.83” H: 11.88” D: 19.69”)

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EBS Cold Weather Warming Box (CWWB-4)
For (5x) Logger II

**SAP Code: XEBSCWWB4**

The Cold Weather Warming Box (CWWB-4), is designed to contain a full complement of 5 logger II’s and keep them at a reliable operating temperature in subzero conditions. It is designed so after the logging process is complete the equipment can be closed inside the boxes and all connections to the det. network are made externally. The heater in the box is powered externally from a 12VDC battery or the 12VDC supply portion of a gas generator. Connections are made via sealed locking connectors.

(Pelican Case 1600 Dimension W: 24.25” H: 8.68” D: 19.43”)

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EBS Cold Weather Warming Box Generator
For CWWB, CWWB-2, CWWB-3 & CWWB-4

**SAP Code: XEBSCWWBG**
Please note that the images in this catalogue are not to scale.

For further information on the full range of Orica's Electronic Blasting Systems please visit our website www.oricaminingservices.com or contact your local Orica Representative.

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