

MANUAL SHAFT SIGNALLING UNITS

In the early days, prior to 1956 the miners came up with a code of signals in order to haul men and ore up and down the mine shafts safely, the hoister, or man in charge of raising and lowering the buckets and cages, had to be able to communicate with the miners below.

For that purpose, a signal code using knocks and rings was adopted in each mine.

Because the signal system was one of the many mining practices that was developed in South Africa the codes used by the different mines were basically the same. To ensure uniformity, however, each Mine eventually adopted a Code of Signals in its Mining regulations. Products used were the reliable Martco No.70 and Martco S101 type Bell ringers.



DM1 BELL / DB2 BELL



The DM1 bell is fitted with a 150mm gong and is available in various voltages. Suitable for use with alternating current (AC). The unit can be supplied with either chrome, copper, brass or painted gongs to emit different tones.

The DB2 bell is generally the same as the DM1 but is suitable for use with direct current (DC). The unit can be supplied with either chrome, copper, brass or painted gongs to emit different tones.

NB: Plug in feature for any adjustment or replacement.

Sound Output 96 DB

Product Code:	Description:
*9001.00	DM1 8-32V AC Chrome Gong
*9002.00	DM1 110V AC Chrome Gong
*9003.00	DM1 220V AC Chrome Gong
*9004.00	DM1 8-32V AC Painted Gong
*9005.00	DM1 8-32V AC Brass Gong
*9006.00	DM1 8-32V AC Copper Gong
*9007.00	DB2 8-32V DC Chrome Gong

DEELEX BELL



The Deelex bell is generally the same as the DM1 but is suitable for use with alternating current (AC).

The unit can be supplied with either chrome, copper, brass or painted gongs to emit different tones.

The bell housing is manufactured from aluminium alloy.

Sound Output 100 DB

Product Code:	Description:
*9008.00	Type "M" 8-32V AC Chrome Gong
*9009.00	Type "M" 110V AC Chrome Gong
*9010.00	Type "M" 220V AC Chrome Gong

S100 SIDE LEVER BELL RINGER



The S100 type ringer is used for call bell signalling.

The unit operates by pulling the lever which closes a set of N/O wiping contacts to ring a remote bell.

The housing is manufactured from a dough moulded compound (DMC).

Product Code:	Description:
*9044.00	S100 Bell Ringer

S101 SERIES KEY BELL RINGER

The S101 range of ringers is used for lock bell signalling. These units operate by inserting a key into the side of the unit and turning it, thus closing a wiping contact to ring a remote bell.

The unit can be supplied in various key configurations such as : triangle, half moon, square, oblong, hexagon and small triangle.







The housing is manufactured from a dough moulded compound (DMC).



Product Code:	Description:
*9045.00	S101 Triangular Bell Ringer
*9046.00	S102 Square Bell Ringer
*9047.00	S103 Small Triangular Bell Ringer
*9048.00	S104 Hexagon Bell Ringer
*9049.00	S105 Half Moon Bell Ringer
*9050.00	S108 Oblong Bell Ringer

BELL RINGER KEYS

Keys are used to operate S101 bell ringers and are available in the following configuration:

-  - S101 Triangular Key
-  - S102 Square Key
-  - S103 Small Triangular Key
-  - S104 Hexagon Key
-  - S105 Halfmoon Key
-  - S108 Oblong Key



Product Code:	Description:
*9061.00	S101 Triangular Key
*9062.00	S102 Square Key
*9063.00	S103 Small Triangular Key
*9064.00	S104 Hexagon Key
*9065.00	S105 Half Moon Key
*9066.00	S108 Oblong Key

NO. 70 BELL PULL

The No. 70 bell pull is suitable for use in a call bell application.

By pulling the handle in a downward motion a wiping contact closes operating a remote audible device. The unit can be supplied with a standard or extended shaft.

This housing is manufactured from a dough moulded compound (DMC) and on special request can be manufactured in a cast iron housing.



Product Code:	Description:
*9037.00	No. 70 Bell Pull Standard Shaft
*9038.00	No. 70 Bell Pull 9" Ext Shaft
*9036.00	No. 70 Bell Pull Cast iron

NO. 72 BELL PULL

No. 72 bell pull is suitable for use in a lock bell application. By inserting a key into the bottom of the unit a mechanism is unlocked. This allows the handle to be pulled in a downward motion, closing a contact that then operates a remote audible device.

The unit can be supplied with a standard or extended shaft and key.

Manufactured from a dough moulded compound (DMC).

Keys are used to operate No 72 Bell Pull and are available in the following configuration:

-  - No. 72 Standard Key
-  - No. 72 9" Key



Product Code:	Description:
*9040.00	No. 72 Bell Pull (Lock) c/w Key
*9041.00	No. 72 Bell Pull Ext Shaft c/w Key
*9067.00	No. 72 Standard Key
*9068.00	No. 72 9" Key

MANUAL SHAFT SIGNALLING UNITS



180 BELL PULL COMBINATION

The Bell Pull Combination is a robust signalling device that is used mainly when shaft sinking is done. The unit is supplied as a Call Bell unit without a key or a Lock Bell unit with a key.

Call Bell - This unit operates by pulling the handle.

Lock Bell - This unit operates by inserting and turning the key and then pulling the handle.

Both units ring the bell on the level that it is activated on and a "common" wire ensures that all the bells in the system ring.

See schematic diagram for shaft bell systems.

Product Code:	Description:
*9101.00	180 Bell Pull Combination (Call) 8-23V
*9103.00	180L Bell Pull Combination (Lock) 8-32V



BELL BOX W1 (NO LIGHTS)

This W1 Bell Box is used when manual signalling is required.

The unit can be equipped with various bells and bell ringer configurations.

This unit is generally utilised for Lock Bell applications.

The housing is manufactured in stainless steel.

* All the below mentioned DM1 bells are available in 110V

Product Code:	Description:
*9820.00	S100 Bell Ringer & DM1 8-32V AC Bell
*9820.01	S101 Bell Ringer & DM1 8-32V AC Bell
*9821.02	S102 Bell Ringer & DM1 8-32V AC Bell
*9822.01	S104 Bell Ringer & DM1 8-32V AC Bell
*9823.01	S105 Bell Ringer & DM1 8-32V AC Bell
*9824.01	S108 Bell Ringer & DM1 8-32V AC Bell
*9826.01	No. 70 Bell Pull & DM1 8-32V AC Bell
*9826.08	No. 72 Bell Pull & DM1 8-32V AC Bell
*9826.02	No. 72 Bell Pull & Deelex Bell 32 V
*9826.04	No. 70 Bell Pull & DB2 32V Bell
*9826.06	No. 72 Bell Pull & DB2 32V Bell



BELL BOX W1 (WITH LIGHTS)

This Bell Box is used when manual signalling is performed.

The unit can be equipped with various bells and bell ringer configurations.

This unit is generally utilised for Lock Bell applications.

The housing is manufactured in stainless steel and fitted with a lock and clear lights (red and green).

* All the below mentioned DM1 bells are available in 110V

Product Code:	Description:
*9820.02	S101 Bell Ringer & DM1 8-32V AC Bell
*9821.00	S102 Bell Ringer & DM1 8-32V AC Bell
*9822.00	S104 Bell Ringer & DM1 8-32V AC Bell
*9823.00	S105 Bell Ringer & DM1 8-32V AC Bell
*9824.00	S108 Bell Ringer & DM1 8-32V AC Bell
*9826.00	No. 72 Bell Pull & DM1 8-32V AC Bell
*9826.03	No. 70 Bell Pull & DB2 32V DC Bell
*9826.05	No. 72 Bell Pull & DB2 32V DC Bell



JG/W1 MANUAL CALL BELL UNIT

This emergency Call Bell unit is used in the event of an accident in a mine shaft. To activate, break glass and push the emergency button. A signal will be transmitted to the drivers cabin as well as to all levels.

JG/W1 - The unit is equipped with an emergency push button (behind glass) with a DM1 bell or electronic sounder.

Product Code:	Description:
*9829.00	JGW1 c/w Sounder
*9829.01	JGW1 c/w Bell