



GRAB IT



Design Institute South Africa
Design Excellence Award
2006

POLOphone

Presenting an intercom system with a unique style, outstanding features and excellent value for money.

The design of the polophone handset is state of the art. The hole in the centre of the handpiece allows it to clip over the cradle and merge smoothly into one compact unit.

With the handpiece remaining in position, the hole in the handpiece exposes the buttons on the face of the cradle allowing operation of the gate / door release and any auxiliary features.

Each handset can independently operate the door lock or gate motor linked to each entry panel. They have a further auxiliary pushbutton to operate an extra facility at the gate/door entrance (pedestrian opening) or switch on a light outside. Finally an indicator light (LED) has been provided in the face of the handset cradle. This can be connected to the gate status feature of the entrance gate operator, where applicable, to indicate the status of the gate whether it is open, closed or moving.

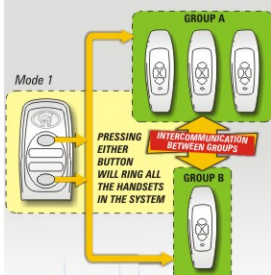
The versatility and expandability of the polo-phone is exceptional. From a basic one to one kit for the average home, components can be very simply added to the system to expand it into an ideal unit for large houses or small office installations.



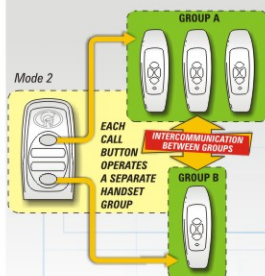
The **POLO**phone system can be expanded to include 5 components as follows:

- Up to two entry panels
- Each entry panel fitted with two call buttons
- Two groups of handsets
- Up to three handsets per group
- Intercommunication between the groups of handsets

In addition the **POLO**phone supports two ways for calling handsets from the entry panel(s). In one mode, pressing either call button on the entry panel(s) will ring all the handsets in the system.



In the second mode, each call button rings a separate handset group. Selecting between the two modes is programmed very simply at the entry panel.



The **POLO**phone system could not be simpler to install using a two wire bus throughout. Connect entry panels and handsets to any point on this bus and the system is up and running. Added to this, the system only requires a low current 12V DC supply that can be connected to either the entry panel or any handset in the system whichever is the most convenient.

To enhance the reliability of the system substantial protection circuitry has been incorporated into both the electronics of the handset and entry panel to guard against lightning and electrical surges.

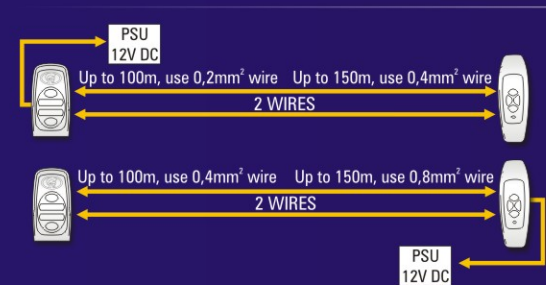


The clever design of the **POLO**phone that includes moulded components, the ability to connect to an external 12V DC supply and optimised electronics has resulted in a very affordable product.

Specifications

Operating voltage:	12 -14V DC supplied from gate motor supply* or separate 14V DC supply
Current draw:	Quiescent - 150mA (+/- 60mA for a 1:1 system). Maximum - 200mA
Speech volume:	Adjustable at each entry panel and handset.
Wiring:	2 Common wires polarized for speech, call and lock release.
Ring tone:	Electronic while button is depressed with separate tones when calling from each entry panel in a system or between groups of handsets.
Call confirmation at entry panel:	Yes
Wiring distance:	Refer to thickness chart below.
Gate / Door release:	Potential free normally open contact at entry panel. Door lock requires separate power supply.
Handset auxiliary contact:	Potential free normally open contact. Requires separate wiring to 2-Wire bus.
Operating temperature:	-20°C to +50°C
Humidity:	0-90% non condensing.
IP rating:	IP56
Surge protection:	Yes

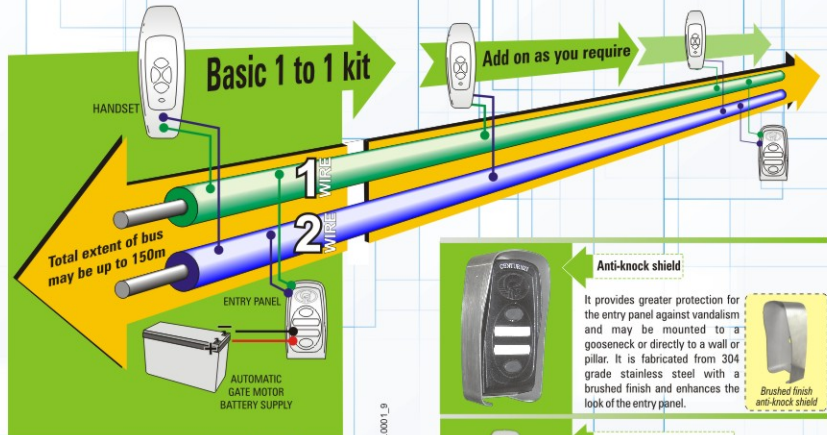
*NB: If 12V DC gate motor supply dips when motors starts up and the intercom is being used at the same time, the speech quality might be affected.



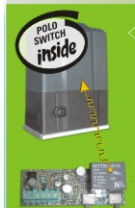
POLOphone 2-wire bus for easy installation and expandability

Connect up to 5 components (e.g. 1 entry panel and 4 handsets or 2 entry panels and 3 handsets) using only two wires.

Connect the 12V DC supply to the nearest component in the system, either entry panel or handset. For instance if the entry panel is at a gate entrance with an operator that can provide 12V DC, connect the entry panel directly to this power source. Alternatively plug in a 14V DC power supply into an electrical socket inside the building and connect this to the nearest handset. What could be more convenient?



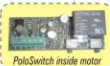
POLOphone extras



PoloSwitch

This dual-function relay card connects to the POLO PHONE 2-wire bus*.

Depending on the switch setting on the relay card, the **PoloSwitch** functions either to make up an external ring extender for a particular group of handsets or it acts as a secure gate trigger for a particular entry panel.



Anti-knock shield

It provides greater protection for the entry panel against vandalism and may be mounted to a gooseneck or directly to a wall or pillar. It is fabricated from 304 grade stainless steel with a brushed finish and enhances the look of the entry panel.



Conduit box mounting plate

Simplify the installation where a 2" x 4" conduit wall box has been provided for mounting the handset.

The **conduit box mounting plate** replaces the existing box plate and provides the necessary fixing points and cable entry hole allowing direct mounting of the handset cradle bracket to it.



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* The POLO bus can only accommodate 5 components as explained in the brochure. The connection of each PoloSwitch reduces the number of components, either handsets or entry panels, in the system in equal proportion.