How transform easily a traditional doorphone in a TELEPHONE DOORPHONE
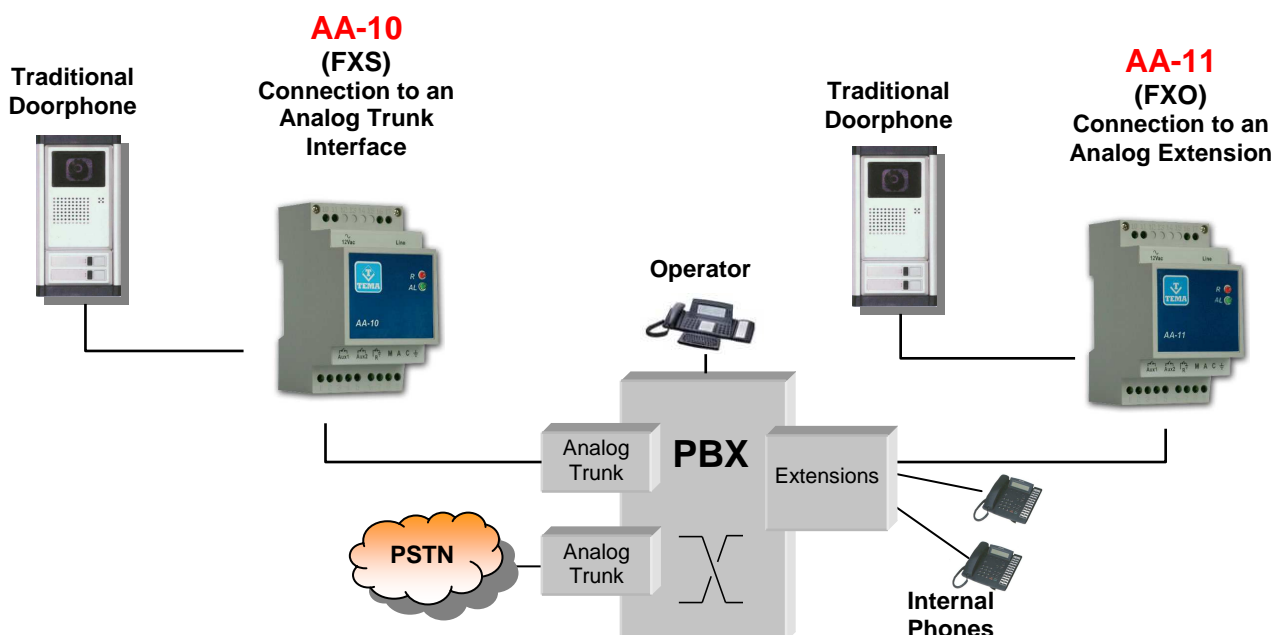
In recent decades, the communications has evolved with gradually more and more functional devices. Today this trend was even more marked in telephony with the advent of VoIP that gives new previously unimaginable low cost services.

The integration between traditional doorphone and telephony has always been the subject of numerous solutions. One among the most common is to allow the management of calls, and the opening of the door or gate via an internal extension of the PBX.

TEMA Telecomunicazioni introduce **AA-10** and **AA-11** interfaces, one for connection to a PBX analog trunk and the other one for connection to a PBX analog extension, to solve the problem by offering different solutions according to the needs.

Applications

- ♦ *Companies, Offices, Hotel*
- ♦ *Industries, Hospital*
- ♦ *Supermarkets and Shopping Centers*
- ♦ *Residential and Condominiums*
- ♦ *Wherever it is necessary to interface a traditional 4 or 5-wire doorphone to a normal telephone cable terminating on a PBX*
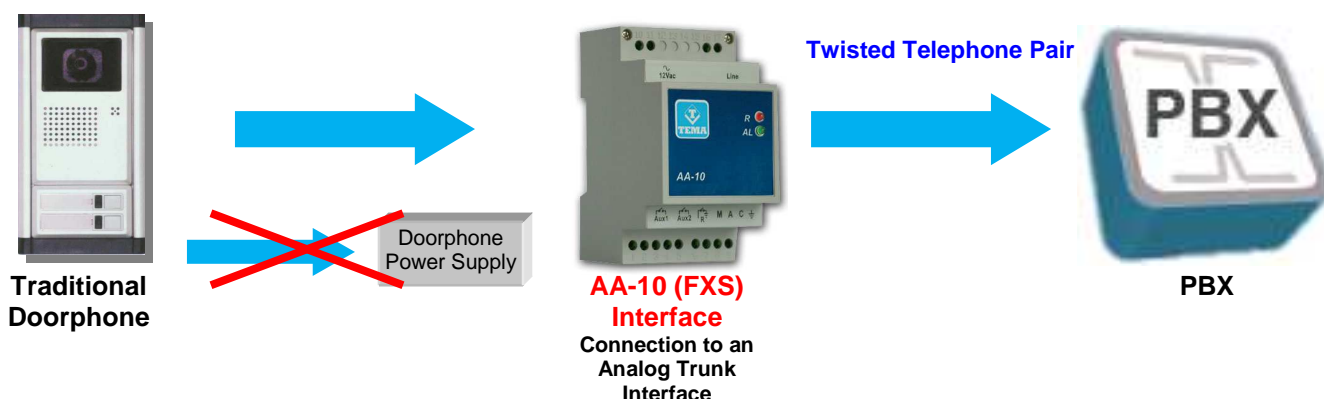

Traditional Doorphone

AA-10
(FXS)
Connection to an Analog Trunk Interface

Operator

Traditional Doorphone

AA-11
(FXO)
Connection to an Analog Extension

PBX

Analog Trunk

Analog Trunk

PSTN

Extensions

Internal Phones

Solution 1 | **Using the AA-10 interface to connect a traditional doorphone to an analog trunk interface of PBX.**

The **AA-10** interface allows the management of an existing traditional doorphone (4 or 5 wires) by connecting it to a PBX analog trunk interface so that when a visitor presses the call button, **AA-10** generates a call to the internal operator phone and allows, via DTMF codes, to answer to the call, open the door, switch on courtesy lights or manage other devices.

AA-10, unlike other products on the market, comes with a power relay with capacity up to 5A able to operate an electric lock and 2 relays (with capacity up to 1A) to control auxiliary devices.
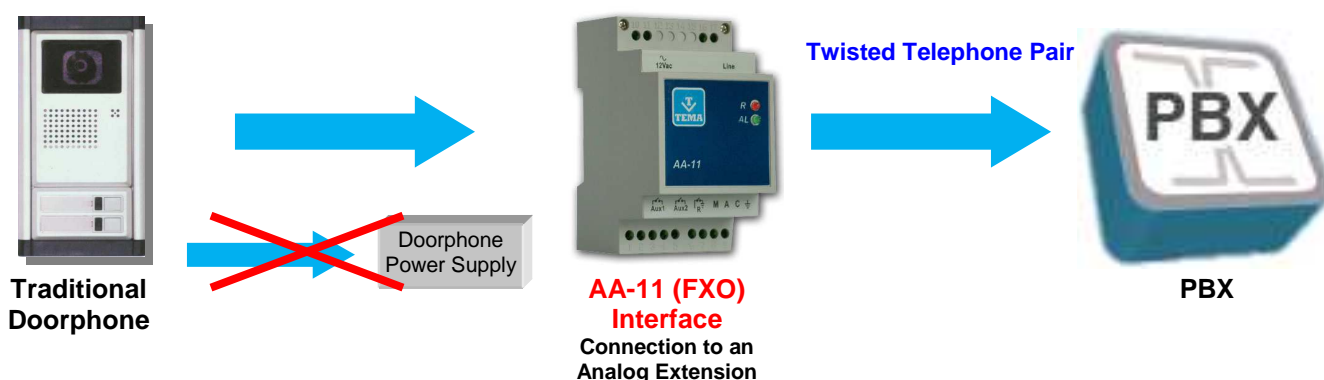

Traditional Doorphone — Doorphone Power Supply — **AA-10 (FXS) Interface** Connection to an Analog Trunk Interface — **Twisted Telephone Pair** — **PBX**

Solution 2 | **Using the AA-11 interface to connect a traditional doorphone to an internal extension of PBX.**

The **AA-11** interface allows to connect an existing traditional doorphone (4 or 5 wires) to an internal extension of the PBX. When a visitor presses the call button, **AA-11** generates a call to an extension number (up to 3 programmable numbers) connecting the visitors with the operator.

A version of **AA-11** is available with tone detection, so that when the operator hangs up **AA-11** will automatically close the call. It is possible to adjust the parameters of sensitivity of the tones detection circuit, so as to adapt the interface to the PBX.
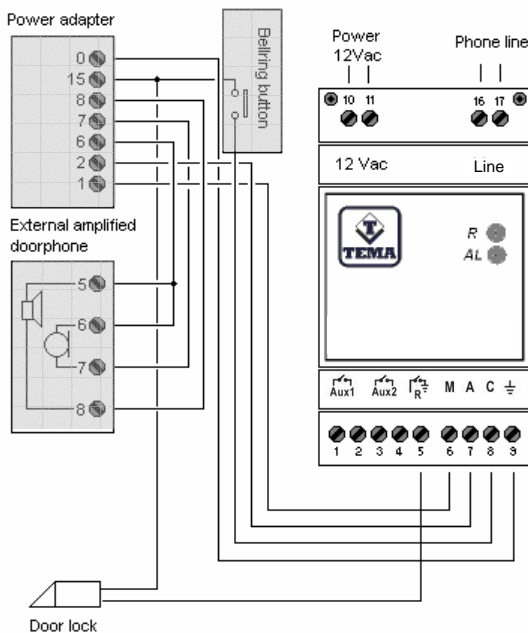
It is possible to execute, through a normal DTMF phone, 9 different commands as you normally would through the traditional doorphone: speaking with guest, open the door lock, switch on/off the lights and so on. **AA-11** is equipped with 1 open-door relay and 2 auxiliary relays in order to drive external devices (i.e. switch on lights). Both relays are fully programmable: it is possible to choose the number of pulses of the open-door relay and the modality of the auxiliary relays (normal or impulsive running): this features, as well as small dimensions, make **AA-11** a flexible solution for several automation requirements.

Traditional Doorphone — Doorphone Power Supply — **AA-11 (FXO) Interface** Connection to an Analog Extension — **Twisted Telephone Pair** — **PBX**
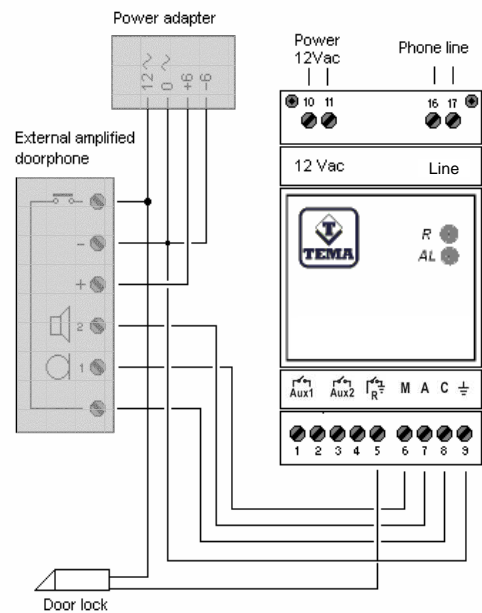
Installation and use of AA-10 and AA-11 interfaces

Below are some examples of connection with various types of traditional door entry systems, identify your model and make connections as shown.
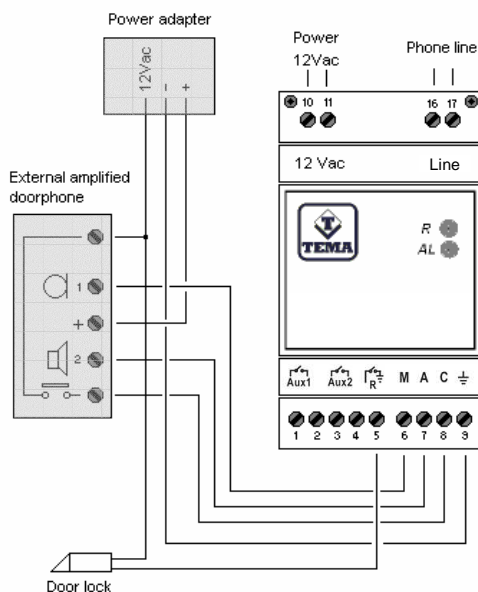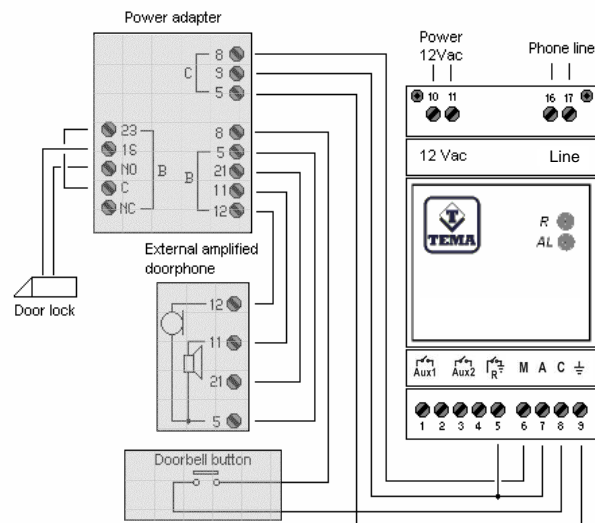
Connection to "ELVOX" doorphone

Connection to "URMET" doorphone

Connection to "TERRANEO" doorphone

Connection to "BPT" doorphone

These are just some examples of connection with most popular models of traditional door-phone. For other brands, please see technical manuals that can be downloaded directly from our website http://www.tematlc.it/eng/index.asp

Systems have been tested and installed on the PBX of the most popular brands: *Tested!*

SIEMENS (HICOM, HIPATH, OPENOFFICE) - AVAYA - ALCATEL (4300, 4400, OXO, OXE) AASTRA (5000, BP250, MD110, MX ONE) - VT NITSUKO - SELTA - NEC PHILIPS - PROMELIT PANASONIC (TDA - TDE - NCP - NS1000) - MITEL - SAMSUNG - TIE NEXTEL - VOISMART 3CX - ASTERISK - SHORETEL - CISCO CALLMANAGER - WILDIX - SWYX - ELASTIX VOISPEED - SNOM - KALLIOPE - INNOVAPHONE - MEDIATRIX - DIGIUM - LINKSYS - PATTON AUDIOCODES - ATCOM - YEASTAR - YEALINK - MICROSOFT LYNC - GIGASET - MITAN

AA-10 Doorphone Interface for PBX analog trunk

Dimensions	: L52 x H90 x W60 mm
Mounting	: DIN bar
Operating temperature	: 0°C - 45°C
Relative humidity	: 95% not condensing
Weight	: 180 g.
Power Supply/Consuption	: 12V_{DC}/V_{AC} (optional power supply T7012), 180 mA
Open-gate relay Capacity	: 24V_{DC} / 5A – (Relay 250V_{AC} / 6A)
Auxiliary relay Capacity	: 24V_{DC} / 1A – (Relay 120V_{AC} / 1A)

- *Fits with all existing traditional doorphone systems (4, 5 wires)*
- *DIN bar mounting*
- *1 open-door relay and 2 auxiliary relays in order to drive external devices*
- *Programmable number of pulses and contact closed duration (Open-door relay)*
- *Programmable normal or impulsive running (Auxiliary relays)*
- *Programmable via DTMF phone with 8 different commands*
- *Permanent programming memory (even in the absence of power)*

AA-11 Doorphone Interface for PBX analog internal extension

Dimensions	: L52 x H90 x W60 mm
Mounting	: DIN bar
Operating temperature	: 0°C - 45°C
Relative humidity	: 95% not condensing
Weight	: 180 g.
Power Supply/Consuption	: 12V_{DC}/V_{AC} (optional power supply T7012), 180 mA
Open-gate relay Capacity	: 24V_{DC} / 5A – (Relay 250V_{AC} / 6A)
Auxiliary relay Capacity	: 24V_{DC} / 1A – (Relay 120V_{AC} / 1A)

- *Fits with all existing traditional doorphone systems (4, 5 wires)*
- *DIN bar mounting*
- *Possibility of busy tones detection*
- *1 open-door relay and 2 auxiliary relays in order to drive external devices*
- *Up to 3 programmable extensions for no answer*
- *Programmable number of pulses and contact closed duration (Open-door relay)*
- *Programmable normal or impulsive running (Auxiliary relays)*
- *Programmable via DTMF phone with 9 different commands*
- *Permanent programming memory (even in the absence of power)*

Depliants and technical manuals of the products can be downloaded from our website: www.tematlc.it
Evaluation demo kits are available in promotion at special prices for installers and resellers.

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