



DUO
S Y S T E M

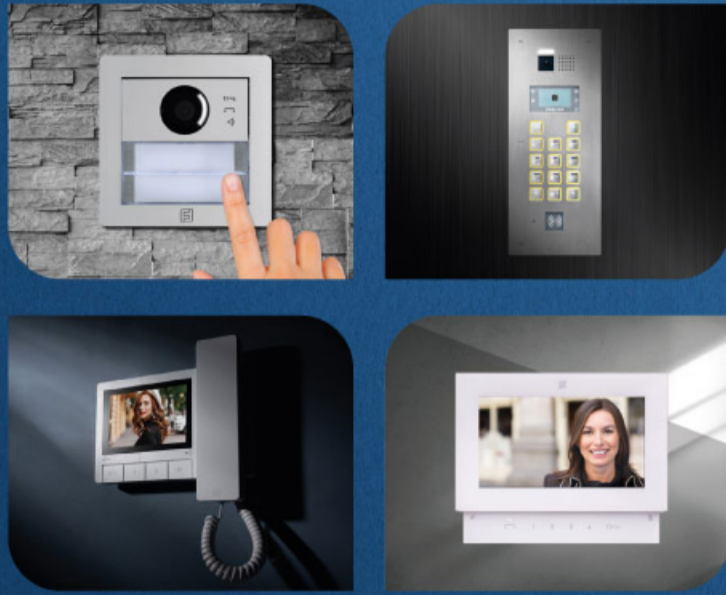
Technical manual 2024

 **FARFISA**
INTERCOMS SINCE 1967

DUO

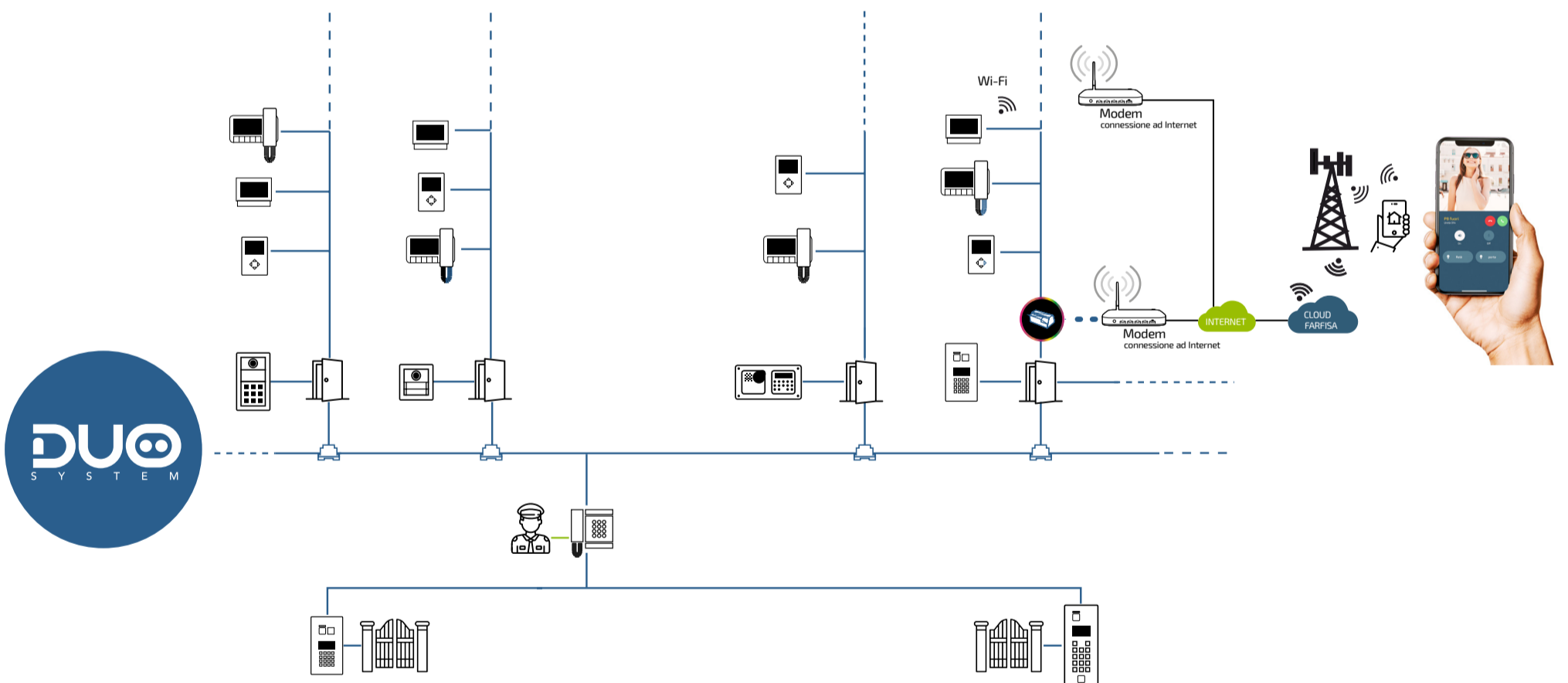
S Y S T E M

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Introduction

THE DUO BUS



THE DUO DIGITAL BUS.

This is a communication system (or network), developed by FARFISA for videointercom systems, thanks to which the various devices in the system can exchange information (such as sending a call, an auto switch-on, a door open signal, a request to activate a relay), using only and exclusively 2 wires. The strategy that makes the correct routing of information possible is based, in analogy to the telephone system, on the fact that each device has a unique address, chosen according to a certain assignment plan, through which it can be reached.

DUO address allocation plan.

Devices	<u>Video/intercoms</u>	<u>Switchboards</u>	<u>Actuators</u>	<u>Input ports</u>	<u>External st.</u>	<u>Modulators</u>
Allowed addresses	001-200	201-210	211-220	221-230	231-253	231-253

All the information contained in the PROGRAMMING chapters of each instruction manual represents nothing more (except for some particular settings such as modifying the ringtones on apartment stations) than a description of the way in which the address can be assigned to that particular device, making use of the available resources (keys , 1, 2 and/or microswitches on apartment stations; call keys or digital keypads on door units or self-learning addresses for actuators and modulators). In order to facilitate the installer's work, all the products that make up a system based on the DUO digital bus can be programmed, in a much more intuitive and simple way, via the '**DUO System**' app, to which the logo and QR-codes shown at the top of the page refer). It is necessary to connect a device to the system, known as a Bluetooth programmer (several models are available, depending on installation requirements, PGR2991BT, XE2921, XE2922) that allows the video door entry system to interface with the smartphone on which the '**DUO System**' app has been installed.

Extending up to 19800 calls.

By introducing a block address, the values of which range from 01 to 99, and prefixing this address to the call address (as if it were an international prefix in an analogy with the telephone system, +39) when sending the call from the outdoor station, it is possible to arrive at 19800 possible calls. In order to take advantage of this opportunity, it is necessary to divide the system into blocks (maximum 99), as if they were 99 countries, using the separator art.2231Q. The separator is configured with the address of the respective block and, just like a door that opens when its bell is rung, it connects the downstream system block with the main entrance, if the call is directed to the intercom/video intercom belonging to the respective block.



OPERATION.

Door call.

When a call is received from the door unit, the video door phone and/or door phone switch out of the stand-by phase (in the case of the video door phone, if it is configured as MASTER or, if allowed for that particular product, it is configured to always display the door unit image, it switches on), emits a beep and enables for about 30 seconds. If the call time has expired, it is still possible to reconnect with the door unit from which the call was received (each video door phone and door phone retains in memory the address of the last outdoor station from which the call was received). Dedicated buttons are provided for each device. The door station is then communicated with for about 90 seconds and the lock is operated by pressing the button.

In the case of a call to a user who has in his flat video door phones configured as SLAVES (and for which the possibility of viewing the video is not foreseen or applicable even if they are slaves) they ring, but only the one whose internal address is 000 lights up. It is in any case possible to answer. This operation automatically switches the video door phone concerned on and switches the one previously switched on (the master) off.

Control switching and connection with one or more door stations.

When the system is at rest and no conversation is in progress, it is possible to switch on control by pressing on the video door phone the buttons set up for this service. Similarly, the door phone allows connection with one or more door stations, without having previously received a call.

The control ignition is interrupted if a further control ignition or a user or door call is made in the system. If the handset is picked up during control ignition (or the buttons in the handsfree set to open the speech channel are pressed), communication with the door unit is automatically established and the lock opening command can also be sent. If a dissuading tone is heard when pressing auto-on, the system is busy and it is necessary to wait for it to become free again.

Make or receive a call from another user.

With the system at rest, it is possible to make a call to another user. To perform this operation you must have previously stored the address of the user you wish to call in the button used.

If the system is free, once the call is made, the call tone will be heard on the caller's side, while the other party's video intercom/intercom will ring (without switching on) with the melody chosen in the programming phase.

If the called party answers within 30 seconds, a conversation begins which can last up to 90 seconds, otherwise the system becomes free. A door call to any user in the system will forcibly end the internal conversation in progress.

Make or receive an intercom call in your flat.

With appropriate programming of the equipment, in a manner entirely similar to that described in the previous paragraph, it is possible to make an intercom call between stations installed in the same flat.

Whether the intercom conversation takes place between two user devices located in the same flat or whether the said devices are located in two different flats, phonic secrecy is maintained both towards the door station and towards any internal user station.