MAS
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Smart Home and Video Doorphone Systems

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- EFES Galaxy modular, antvandal, digital outdoor panel user's manual.
- EFES connection diagra in color and B/W systems with single and multiple distribution.
- EFES connection diagram in color and B/W systems with distribution box.
- EFES connection diagram for digital audio and video systems.
- Switch settnig scheme

EFES SİSTEM DAİRE ÜNİTELERİ SWITCH AYARLARI

BLOCK NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

FLAT NO: 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255

FLAT NO: 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224

FLAT NO: 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192

FLAT NO: 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160

FLAT NO: 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128

FLAT NO: 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96

FLAT NO: 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64

FLAT NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32

GALAXY EFES ANTIVANDAL DIGITAL PANEL
USER'S MANUAL

1 BASIC PROPERTIES
•Call apt. units
•Full duplex (2-way) audio communication with apt. units
•Ability to control (built-in relay) the door strike (if installed) from the apt. units and by Key fob, I-Button, user or apt specific or general PIN.
•Door lock relay can be controlled to set the door open / door strike trigger time.

2 FEATURES
•Entry audio feedback at the panel keypad
•On-screen display of entered number
•Audio warning signal at the entry panel when apt. PIN, I-Button or Key fob is used to open the door. (incl. on/off option).
•Audio warning signal at the entry panel when an apt. is called by the entry panel.
•Ability to assign I-Buttons and Key fobs by entering an apartment number
•Door open action audio feedback at the panel
•Activate/Deactivate calls to apt.
•4 digits user PIN
•Ability to have a changeable user PIN
•About 9 key fobs / 5 I-Button per apartment capacity.
•Ability to connect security guard telephone
•Ability to connect extra camera
•Antiblock feature allowing the system to be able to avoid busy signal after a selectable time limit
•Ability to receive a call even if the apt unit is active or in antiblock mode (hand set off the hook)
•EFES System settings update / upload to all indoor units
•Warning beep (every sec) indicating that the door is open
•15 sec. inactivity timeout period in settings menus

3 FUNCTIONS
3.1 CALL an APT/FLAT
In standby mode, enter the apartment number. Entry is shown on the LED screen. If there is a wrong entry, press **(*)** to delete and correct. Press **(#) (Call)** to call. An audio signal will be given and the screen will display **"Calling..."**. Video doorphone screen will be activated automatically. If answered the audio connection will also be established. The call will be terminated when the handset is placed back on the hook on the video doorphone or the Antiblock Time-1 is reached.

3.2 CALL the DOORMAN/BUILDING MANAGER
In standby mode, enter the number **"255"** and press **(#) (Call)** to call. An audio signal will be given and the screen will display **"Calling..."**. If the call is answered by the doorman, the audio connection will be established. The call will be terminated when the handset is placed back on the hook on the doorman phone or the Antiblock Time-1 is reached.

3.3 DOOR ACCESS
The building door can be opened with a key, user or apt specific or general PIN (4 digit Personal Identification Number / Passcode) or I-button. If the right PIN is entered or an assigned I-button is touched to the housing, the door lock will be opened and **"OPEN"** will be displayed on the screen. If an invalid PIN or an unassigned I-button is used, the door lock will not open and **"ERROR"** will be displayed on the screen. In both cases an audio signal will be given.

3.4 DOOR ACCESS with USER PIN

In standby mode, press the **(#)** button. The LED screen will display **"---F.No"**. Enter the apt. number and press **(#)** again. If there was a PIN assigned to that apt. **"----dP"** will be displayed on screen. Enter the 4 digit individual PIN to open the door. If a PIN was not assigned to that apt. system will drop out of this menu.

3.5 USER SETTINGS MENU

In standby mode, press & hold **(1)**, **(2)**, or **(3)** until **"----P"** is displayed. Enter the 4 digit user PIN and press **(#)** to enter the user settings menu. **"Func_"** will be displayed on screen. Enter the number of the desired function and press **(#)** within 15 sec to enter the submenu.

#	Function
1	User PIN settings
2	Door access PIN settings
3	Apt PIN settings
4	Activate/Deactivate calls to apt.
5	Assigning user I-Button /Assigning user Key Fob
6	Deleting the Key Fobs assigned to an apt.

3.5.1 USER PIN SETTINGS

In user settings menu, press **(1)**. **"----nP"** will be displayed on screen. Enter the 4 digit new PIN. Press **(#)** to save, **(*)** to cancel. If cancelled reenter the new PIN and press **(#)** to save.

3.5.2 DOOR ACCESS PIN SETTINGS

In user settings menu, press **(2)**. **"----nP"** will be displayed on screen. Enter the 4 digit new PIN. Press **(#)** to save, **(*)** to cancel.

3.5.3 APARTMENT PIN SETTINGS

In user settings menu, press **(3)**. **"---F.No"** will be displayed on screen. Enter the apt number (1-255) and press **(#)**. **"----nP"** will be displayed on screen. Enter the 4 digit new PIN. Press **(#)** to save, **(*)** to cancel.

3.5.4 ACTIVATE/DEACTIVATE CALLS TO APT

In user settings menu, press **(4)**. **"---F.No"** will be displayed on screen. Enter the apt number (1-255) and press **(#)**. Either **"Prot_1"** or **"Prot_0"** will be displayed on screen, momentarily. These numbers indicate the call status. "1" indicates call status to the apt is active and "0" indicates call status to the apt is deactivated. Press **(1)** to activate and press **(0)** to deactivate. Press to cancel without saving.

3.5.5 ASSIGNING USER I-BUTTON / KEY FOB

In user settings menu, press **(5)**. **"--F.No"** will be displayed on screen. Enter the apt number (1-255) and press **(#)**. **"TOUCH"** will be displayed on screen. Please touch & hold the desired I-button(or key fob closer) to the housing, until **"FOUND"** and **"RECORD"** is displayed on screen. If that specific I-button was already assigned in the system, **"FOUND"** and **"ERROR"** is displayed on screen.
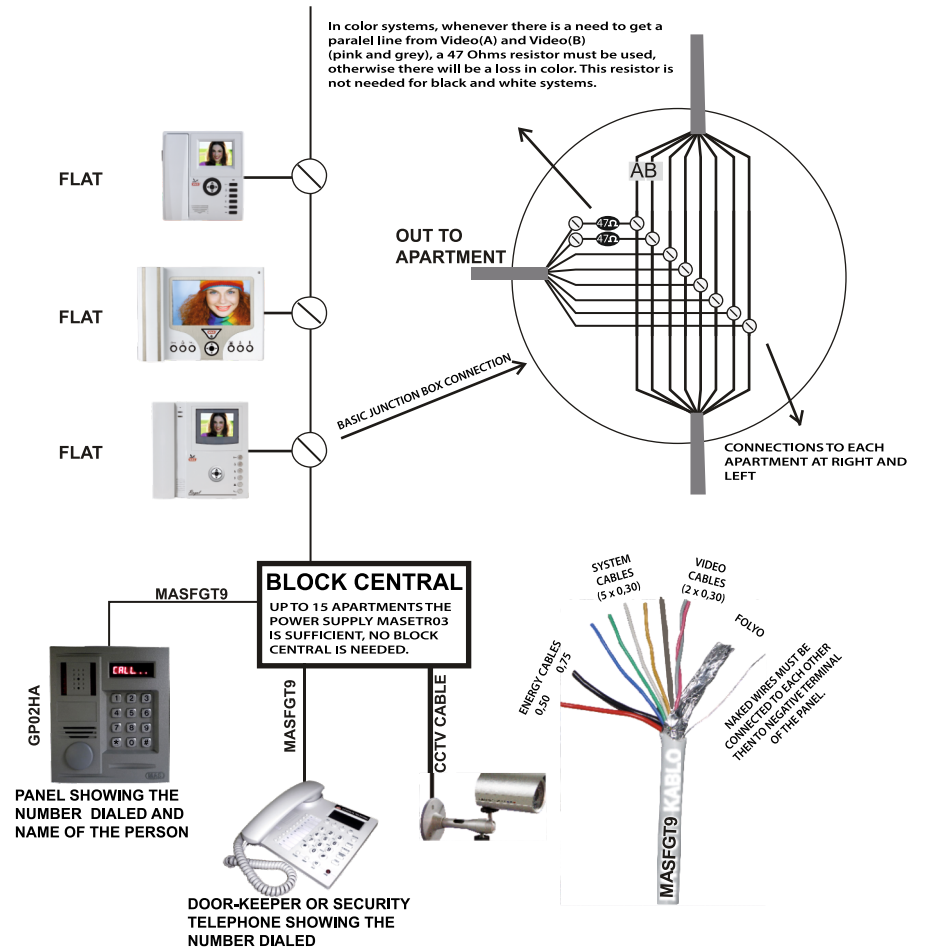
CONNECTION DIAGRAM WITH JUNCTION BOX IN COLOR AND B/W EFES SYSTEMS

Smart Home and Video Doorphone Systems

Place a 75 Ohms resistor between Video(A) and Video(B) terminals (pink-grey) of last junction box, otherwise you may have blurred images and loss in colors.

In color systems, whenever there is a need to get a paralel line from Video(A) and Video(B) (pink and grey), a 47 Ohms resistor must be used, otherwise there will be a loss in color. This resistor is not needed for black and white systems.

FLAT

FLAT

FLAT

OUT TO APARTMENT

AB

BASIC JUNCTION BOX CONNECTION

CONNECTIONS TO EACH APARTMENT AT RIGHT AND LEFT

BLOCK CENTRAL

UP TO 15 APARTMENTS THE POWER SUPPLY MASETR03 IS SUFFICIENT, NO BLOCK CENTRAL IS NEEDED.

MASFGT9

GP02HA

MASFGT9

CCTV CABLE

SYSTEM CABLES (5 x 0,30)

VIDEO CABLES (2 x 0,30)

ENERGY CABLES 0,50   0,75

FOLYO

NAKED WIRES MUST BE CONNECTED TO EACH OTHER THEN TO NEGATIVE TERMINAL OF THE PANEL.

MASFGT9 KABLO

PANEL SHOWING THE NUMBER DIALED AND NAME OF THE PERSON

DOOR-KEEPER OR SECURITY TELEPHONE SHOWING THE NUMBER DIALED

In color video systems, dasy chan connections increase the performance of the system. Loss of color is avoided and installation is easier.

In MAS Intercom systems, an indoor unit which is defective or not hung off does not affect other apartments nor the system.

Systems having a junction box are always open to outer effects and this may lead the intercom system to go out of order.
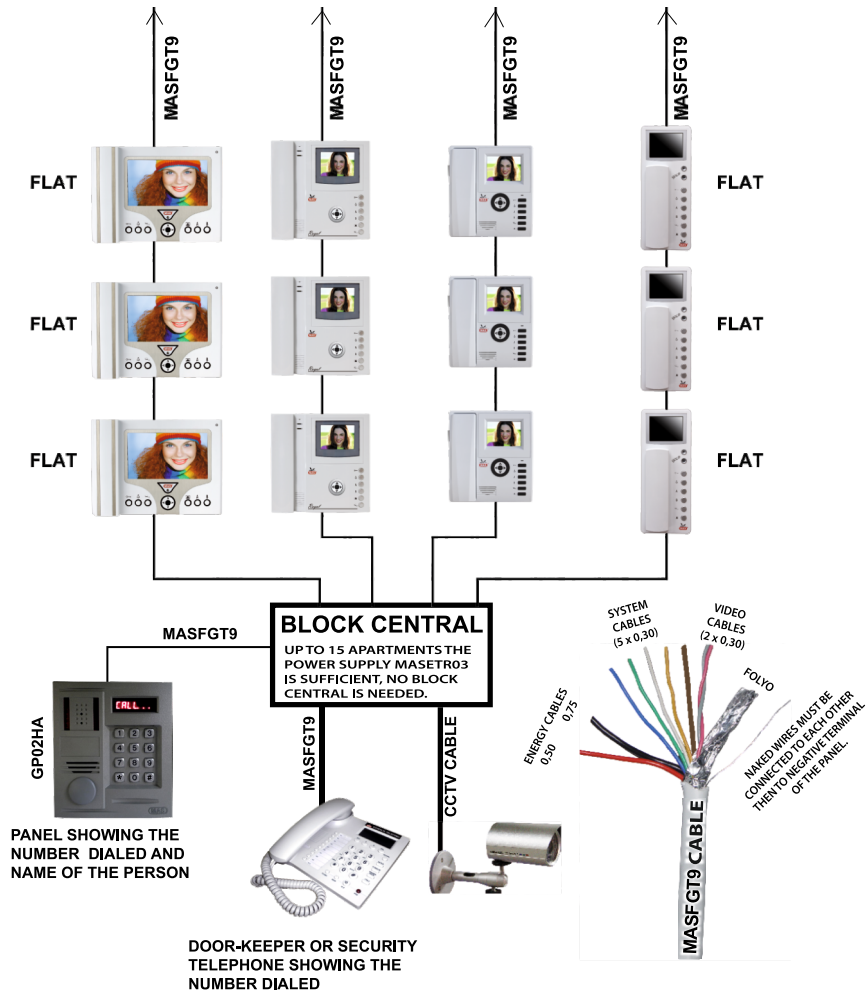
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Smart Home and Video Doorphone Systems

Place a 75 Ohms resistor between Video(A) and Video(B) terminals (pink-grey) of last junction box, otherwise you may have blurred mages and loss in colors.

MASFGT9

MASFGT9

MASFGT9

MASFGT9

FLAT

FLAT

FLAT

FLAT

FLAT

FLAT

FLAT

FLAT

FLAT

MASFGT9

BLOCK CENTRAL
UP TO 15 APARTMENTS THE POWER SUPPLY MASETR03 IS SUFFICIENT, NO BLOCK CENTRAL IS NEEDED.

GP02HA

MASFGT9

CCTV CABLE

ENERGY CABLES 0.50   0.75

SYSTEM CABLES (5 x 0,30)

VIDEO CABLES (2 x 0,30)

FOLYO

NAKED WIRES MUST BE CONNECTED TO EACH OTHER THEN TO NEGATIVE TERMINAL OF THE PANEL.

MASFGT9 CABLE

PANEL SHOWING THE NUMBER DIALED AND NAME OF THE PERSON

DOOR-KEEPER OR SECURITY TELEPHONE SHOWING THE NUMBER DIALED

In color video systems, dasy chan connections increase the performance of the system. Loss of color is avoided and installation is easier.

In MAS Intercom systems, an indoor unit which is defective or not hung off does not affect other apartments nor the system.

Systems having a junction box are always open to outer effects and this may lead the intercom system to go out of order.

3.6 SYSTEM SETTINGS MENU
In standby mode, press & hold **(#)**. First **"SySt"** and then **"----P"** will be displayed on the screen. Enter the 4 digit system PIN and press **(#)** again to enter the system settings menu. **"Func_"** will be displayed on screen. Enter the number of the desired function and press **(#)** again within 15 sec. to enter the submenu.

#	Function
1	System PIN settings
2	Door access PIN functionality settings
3	EFES System settings update / upload to all indoor units
4	Assigning the block no
5	Deactivate I-button/or all key fobs assigned to all apts
6	Allowing door access with apt. PIN
7	Adjusting the duration of door lock open time
8	Resetting EEPROM memory to factory settings

3.6.1 SYSTEM PIN SETTINGS
In system settings menu, press **(1)**. **"----nP"** will be displayed on screen. Enter the 4 digit new PIN. Press **(#)** to save, **(#)** to cancel. If cancelled reenter the new PIN and press **(#)** to save.

3.6.2 DOOR ACCESS PIN FUNCTIONALITY SETTINGS
In system settings menu, press **(2)**. Either **"Loc_1"** or **"Loc_0"** will be displayed on screen, momentarily. These numbers indicate the door access PIN functionality status. "1" indicates that the PIN is active and "0" indicates that the PIN is deactivated and can't be used to open the door. Press **(1)** to activate and press **(0)** to deactivate. Press **(*)** to cancel without saving.

3.6.3 EFES SYSTEM SETTING UPDATE / UPLOAD
In system settings menu, press **(3)**. EFES system setting parameters and the corresponding values in memory will be displayed on screen, momentarily one after another. Each parameter will be displayed, followed by **"------"**. Please enter the new value or press **(*)** to move on to the next parameter without making any changes. If a new value was entered, press **(#)** to save. After 5 parameters were displayed, **"SEND"** and **"PROGR.?"** will be displayed on screen, asking whether these parameter values should be send to all the apt units! Press **(#)** to send, press **(*)** to cancel.

EFES apt unit's system setting parameters and values:
- **ABS1** : Antiblock time-1 (min 90sec - max 240sec) input: 9-24
- **ABS2** : Antiblock time-2 (min 180sec - max 240sec) input: 18-24
- **EAS1** : Screen Active time-1 (min 0sec - max 30sec) input: 0-3
- **EAS2** : Screen Active time-2 (min 20sec - max 30sec) input: 2-3
- **CH_**: Connection channel (CH 1 if byte 0x02, CH 1 if byte 0x00) input: 1-2

3.6.4 ASSIGNING THE BLOCK NO
In system settings menu, press **(4)**. **"BL.No_"** and actual block number will be displayed on screen for a while. After this number disappears, enter the desired block number (between 0 and 15) and update this time in memory by pressing **(#)**.

3.6.5 DEACTIVATE I-BUTTON ASSIGNED TO AN APT
In system settings menu, press **(5)**. **"---F.No"** will be displayed on screen. Enter the apt number (1-255) and press **(#)**. **"DEL_?"** will be displayed on screen. Please touch & hold the administrator I-button to the housing to deactivate the I-button assigned to that apt.

3.6.6 ALLOWING DOOR ACCESS WITH APT PIN
In system settings menu, press **(6)**. Either **"dLoc_1"** or **"dLoc_0"** will be displayed on screen, momentarily. These numbers indicate the door access with apt. PIN functionality status. "1" indicates that the PIN is active and "0" indicates that the PIN is deactivated and can't be used to open the door. Press **(1)** to activate and press **(0)** to deactivate. Press **(*)** to cancel without saving.

3.6.7 ADJUSTING THE DURATION OF DOOR LOCK OPEN TIME
In system settings menu, press **(7)**. **"PERIOD"** and **"x_Sec"** will be displayed on screen. "x" is an administrator/technician determined number between 1-8, designating the door lock open time in memory in seconds. After this number disappears, enter the desired digit (between 1 and 8) and update this time in memory.

3.6.8 RESETTING EEPROM MEMORY TO FACTORY SETTINGS
In system settings menu, service technician can press "**8**" to reset the EEPROM memory to factory settings. You can see the EEPROM memory factory values in Appendix-1.

4 FUTURE POTENTIAL PROPERTIES
•Determining the first apartment number between 2-255 (other than 1)
•Confirmation from the apt unit when saving/changing the apt. PIN for the first time.
•Quickly assigning the I-Buttons in an order of apt number.
•Audio warning signal at the apt unit when apt. PIN or I-Button is used to open the door. (incl. on/off option.
•Audio warning signal at the entry panel when an apt. is called (N/A in current EFES units)

5 TECHNICAL PROPERTIES

Power consumption:	Standby mode	: 4W (18V-220mA)
	Active mode	: 5W (18V-280mA)
Apartment capacity		: 255
Highest number assignable to an apt.		: 255
PIN digits		: 4
User PIN capacity		: 10000
I-Button capacity (Dallas-DS1990)		: 1220
Key fob capacity		: 9 pcs for each apt.
Apt. unit call time		: 20 sec.
Talk time limit (Antiblock)		: 90sec (max. 240sec)
Door lock open time		: 1-8 sec.

MASEFES DIGITAL - H
DOORPHONE - VIDEODOORPHONE
CONNECTION SCHEME

NOTE
PLEASE CONNECT ALL GROUND WIRES TOGETHER AND AFTERWARDS TO THE CONNECTION 3 ON THE OUTSIDE PANEL OTHERWISE THERE COULD BE DISTORTION IN VOICE. IF YOU HAVE PROBLEMS IN VIDEO SIGNAL PLEASE CONNECT 75 - 220 OHM RESISTANCE TO THE CONNECTIONS 4 AND 5 ON THE LAST VIDEODOORPHONE

WARNING !
IF THE SYSTEM DO NOT HAVE GUARD PHONE, DOORMAN PHONE OR AR01 (intercommunication module), CONNECT WIRE 3 WITH WIRE 9

RED BLACK / BLUE YELLOW GRAY PINK / WHITE GREEN

AUDIO DOORPHONE
VIDEO DOORPHONE
VIDEO DOORPHONE
GUARD DOORPHONE

WARNING
If you have "COAXIAL CABLE" in the system, you can connect them to the connection 3 on the outside panel DO NOT connect coaxial cable to the connections 4 and 5

Optional extra camera

INPUT 220V AC
POWER SUPPLY

MAS ETR03
OUTPUT 20V DC
2x0.75 Cable
INPUT 220 AC
OUTPUT 12V AC
BUTTON AT ENTRANCE DOOR
DOOR OPENER

RED BLACK F4 BLUE YELLOW GRAY PINK F2 F1 WHITE

GALAXY

! WARNING !
After 16 apartments please use EBS12

NOTE
If there are excess wires in the system you can connect them to the connection 3 on the outside panel

If EFES 50xx or EFES60xx outdoor panels will be used with handsfree units, 1 piece 10K resistor must be placed between blue and black (GND). Handsfree units : DIAMOND, SAFIR, ELITE, CUBE, SILVER

MASEGT01 CONNECTIONS
2- (+) 24V - RED
3- GND (-)
4- VİDEO (B)
5- VİDEO (A)
6- BLUE - PANEL SPEAKER
7- BELL BUTTON OUTSIDE DOOR
8- BELL BUTTON FLAT DOOR
9- GREEN
10- YELLOW PANEL MIC
11- FUNCTION
BELL BUTTON FLAT DOOR

F1: FUNCTION
F 2 : NIGHT VIEW CONTROL
F4 : EXTRA CAMERA
IF YOU WANT TO USE NIGHT VIEW CONNECT THE CONNECTIONS ON VİDEODOORPHONES TO CONNECTION F2 ON OUTSIDE PANEL
CAMERA CABLE → F4 → GND