

# BELLCOME

## TL Touch Line



1/2/3 Families  
VIDEO DOOR PHONE KIT 3.5"/7"  
User manual

EN



# INSTALLATION INSTRUCTIONS – TL VIDEO DOOR PHONE KIT

Thank you for choosing the **BELLCOME** products. We will assist you throughout the entire warranty period.  
For technical support and assistance you can contact us at ELECTRA Building Communications GmbH ☎ +43 1 810 20 99, support@bellcome.com.

**KIT INSTALLATION.** Follow the steps below, in the described order.

- **STEP 1.** Read the diagrams in this brochure and the technical manuals of the KIT (**VPA, VTx, SCU**).
- **STEP 2.** Make the electrical connections to the terminals (**ATM, VTM, VTA**) and then to the **VPA** outdoor panel.
- **STEP 3.** Make the electrical connections of the **LCK** door lock and **LOCK SUPPLY** to the terminals of the **SCU** central unit and, if necessary, the connections to: the **EXIT** button; **AUX** additional installations; **BAT**; **Vcam** analog video camera.
- **STEP 4. AUTHORIZED PERSONNEL!!! READ THE SAFETY INSTRUCTIONS FROM THE MANUAL OF THE SCU CENTRAL SUPPLY UNIT!!!** ➔ **DISCONNECT** the fuses and make the **L, N, PE** connections to the **SCU** ➔ **CONNECT** the fuses to the power network. The **S2** LEDs turn on, and **S1** turns on only if the battery (12V/max. 42Ah) is connected.
- **STEP 5.1. PROGRAMMING THE MAIN ENTRANCE PANEL: RFID CARDS/TAGS** ➔ At the **SCU**, long press (3 sec.) the **PROG** button (point 6). The **PROG** Red LED turns on ➔ Go to the **VPA** panel from the main entrance and touch each **RFID CARD** to the **(••)** (RFID) area for one second. For each programmed **RFID CARD/TAG**, the panel issues two beeps. Follow the same steps for programming all the **RFID CARDS/TAGs**, for all the residents of the building. Return to the **SCU** and short press the **PROG** button. The Red LED turns off. The main panel keeps **address 1**, which is set from the factory and is ready to function.
- **STEP 5.2. PROGRAMMING THE ADDITIONAL PANEL: NEW ADDRESS and RFID CARDS/TAGs.** If the access in the building is made through two entrances, the **VPA2** additional panel (point 11) from entrance 2 must be set up with **address 2**. At **SCU 2** long press the **PROG** button. The **PROG** Red LED turns on. ➔ At the **VPA2** panel, long touch the **Fam.1** key (long confirmation beep), then short touch the **Fam.1** key, twice. The panel confirms the storage of **address 2** with two short beeps. Continue programming the **CARDS/TAGs** in the **VPA2** panel. ➔ Each touch of the **CARD/TAG** to the **(••)** area is confirmed by the **VPA2** with two beeps. ➔ Return to the **SCU2** and short press the **PROG** button. The Red LED turns off. The **VPA2** and **VPA1** panels are ready to function, with all the terminals in the building.
- **STEP 6.1 PROGRAMMING THE ADDRESS OF THE Fam.1 TERMINAL.** The terminals keep **Address 1**, which is set by the manufacturer.
- **STEP 6.2 PROGRAMMING THE ADDRESS OF THE Fam.2, Fam.3 or more TERMINALS.** The terminals for **Family 2** will have **address 2**, the terminals for **Family 3** will have **address 3** and so on for **4, 5** etc.
- **Program the new addresses as follows:** ➔ At **SCU 1** long press (3 sec.) the **PROG** button. The **PROG** Red LED turns on ➔ At the terminals for **Family 2**, long touch the **Fam.2** key. The terminal confirms with one long beep. Short touch the **Fam.2** key twice. Two short beeps are issued. The terminal stores **address 2**. Continue programming **address 3** at **Family 3** following the same steps. Long touch the **Fam.3** key and after the long beep, short touch the **Fam.3** key three times. Storage is confirmed with three short beeps. ➔ Return to the **SCU** and short press the **PROG** button. The Red LED turns off. The terminals are ready to function.

**RECOMMENDED CABLES** (point 1) Maintain the same wire colors for the same connections.

- 1) **Max. 75 ml ➔ 4 x 0.5 mm<sup>2</sup> (H03VV-F4G 0.5)**
- 3) **Max. 250 ml ➔ UTP cat5e (AWG24) or UTP cat6e (AWG23)**
- 2) **Max. 150 ml ➔ 4 x 0.75 mm<sup>2</sup> (H05VV-F4G 0.75)**

Out of electrical safety reasons, we recommend installing a grounding cable (minimum 1.00 mm<sup>2</sup> – Green/Yellow) from the **PE** panel (VPM) to the **PE** central unit (SCU).

## DETAILED PRODUCT CODES

- **VPA – advanced video outdoor panel**; Product codes: **1Fam.VPA.1S(F)R02.xxy04**; **2Fam.VPA.2S(F)R02.xxy04**; **3Fam.VPA.3S(F)R02.xxy04**; **5Fam.VPA.5S(F)R02.xxy04** (S= Surface mounting, F= Flush mounting, R= RFID CARD/TAG access)
- **RFID access CARD/TAG** (secured at reading and copying). They are stored and can be deleted from the VPM.
- **ATM – smart+ audio terminal**; Product code: **ATM.0S402.xxy04**
- **VTM – smart+ 3.5" video terminal**; Product code: **VTM.3S402.xxy04**
- **VTM/VTA – smart+/advanced 7" video terminal**; Product codes: **VTM.7S402.xxy04**/ **VTA.7S902.xxy04**
- **VCB – Video connection box** (1 video input/4 video outputs - 4 Fam.); Product code: **VCB.4DN02.xxy04**

- **VSU – Video selection box;** Product code: VSU.4DN02.xxy04 (4 video inputs/1 video output)
- **SCU – Central supply unit for 1 Fam;** Product code: SCU.VDR02.xxy14 (110-230 Va.c., 50 Hz / 13,5 Vd.c.-2 Ad.c.).  
**Central supply unit for 3 Fam;** Product code: SCU.VDR02.xxy34 (110-230 Va.c., 50 Hz / 13,5 Vd.c.-2 Ad.c.).
- **PSU – Additional supply unit;** Product code: PSU.VDR02.xxy04 (110-230 Va.c., 50 Hz / 13,5 Vd.c.-2 Ad.c.), necessary when, due to various reasons, the supply voltage (+U, GND) at the hubs of the terminals drops below 12V.
- **Vcam – Additional video camera connection,** analogic 1Vv-v, PAL
- **LCK/LCK –** Connection of an **alternating current lock** (max.5Aa.c./24Va.c.), a **direct current lock** (max.3Ad.c./24Vd.c.) or an **electromagnetic lock** (max.3Ad.c./ 24Vd.c.)
- **LOCK SUPPLY –** Connection of the **door lock supply** (max. 24 Va.c./24Vd.c.). A direct current lock of max. 0.6Ad.c./12Vd.c. can be powered directly from the **SCU** by making the connections at the **+U - GND** connections of the **VIDEO DOOR PANEL** connector.
- **NO/NC – Setting of the door lock functioning.** **NO-Normal Open - LCK** relay normal open; **NC-Normal Closed - LCK** relay normal closed.
- **EXIT/EXIT – Connection of EXIT button** (mounted inside the building)
- **AUX1/AUX2 – Connection of additional installations –** auto gate, garage door, outdoor lighting etc. (point 4)
- **+ BAT/- BAT – Connection of rechargeable battery**
- **DBL1/DBL2 – Connection of entrance doorbell** (apartment doorbell)
- **GONG1/GONG2 – Connection of distance call doorbell** (GONG)

## PARALLEL CONNECTION OF THE ADDITIONAL TERMINALS (See the diagram from point 10)

Inside the residence you can install **TL** additional terminals (ATM/VTM 3.5"/ VTM 7"/ VTA 7") using the same type of cable, for the same connections (**+U, C/D, GND, Vin/Vout**). All the terminals in one apartment will have the address of the main terminal. For **Fam.1** the terminals have **address 1** set by the producer. For **Fam. 2, 3** (Fam. 4, 5 or more), program the terminals with addresses 2, 3 (or 4, 5 etc.). See **Step 6.2**.

## PARALLEL CONNECTION OF TWO OUTDOOR PANELS (See the diagram from point 11)

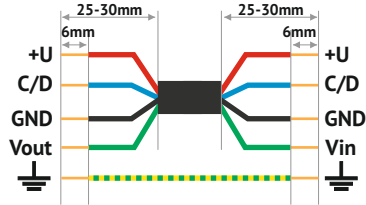
If the building has multiple entrances, you can install **VPA** outdoor panels with their own SCU central supply unit, which will command its own gate. The **VPA1** main outdoor panel keeps **address 1**, set by the manufacturer and only the RFID access cards/tags will be programmed at the **VPA1** (see **Step 5.1**). The **VPA2** additional panel is programmed with **address 2** and with the RFID access cards/tags (see **Step 5.2**).

## TROUBLESHOOTING AND SERVICE FOR THE **TL** VIDEO DOOR PHONE SYSTEM

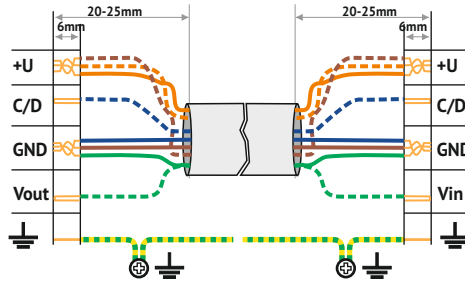
1. **Normal functioning mode, without BAT:** the  and **+U** LEDs are green. The **PROG** and **BAT** LEDs are turned off.
2. **Normal functioning mode, with BAT connected:** the , **BAT** and **+U** LEDs are green.
3.  **The system functions only on battery** (the installation functions correctly until the full discharge of the battery): the **BAT** LED is green, the and **+U** LEDs are turned off. Check the fuses on the SCU (FUSE T-1, 6A) and 2x6A from the network .
4. **The system functions with a broken battery.** The , **+U** LEDs are green, the **BAT** LED is turned off. Change the battery!
5. **The outdoor panel does not function** (the red LED from the outdoor panel does not blink, the call keys are not backlighted): The , **BAT** and **+U** LEDs are green. At the SCU, the VIDEO DOOR PANEL LED is red. Check the continuity and the accuracy of the **+U** and **GND** connections from the SCU to the panel.
6. **A terminal does not function** (the keys are not backlighted when touched, there is no image and sound): the , **BAT** and **+U** LEDs are green. One of the **OUT1, OUT2** or **OUT3** LEDs is red. Check the continuity and accuracy of the **+U** or **GND** connections from the **SCU** to the terminal.
7. **The lock does not function (LCK, LCK):** check the accuracy of the connections from the **SCU** to the lock.
8. **The display of the terminal is blue** (during call, the terminal is blue, there is sound): check the continuity and accuracy of the **Vin, Vout** and **GND** connections from the outdoor panel to the video terminal.
9. **The terminals are not called,** the **PROG** LED is red: check the continuity and the accuracy of the **C/D, +U** and **GND** connections from the outdoor panel to the video terminal.
10. **The terminal for Family 2, Family 3 or with higher addresses cannot be called** (The Family 1 terminal is always called): reprogram the terminal with the correct address (the number of the apartment) according to the procedure in the user manual of the terminal.

# 1

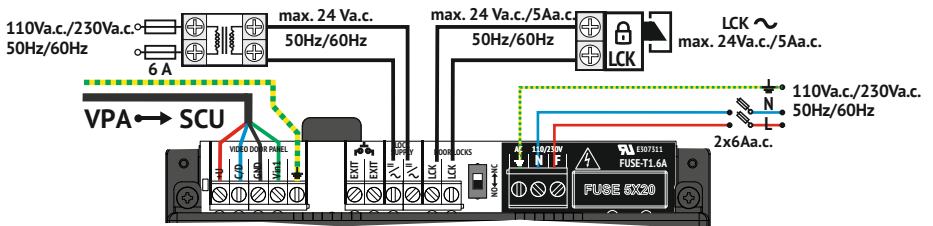
- 1) Max. 75 ml  $\longleftrightarrow$  4 x 0.5 mm<sup>2</sup> (H03W-F4G 0.5)
- 2) Max. 150 ml  $\longleftrightarrow$  4 x 0.75 mm<sup>2</sup> (H05VV-F4G 0.75)



- 3) Max. 250 ml  $\longleftrightarrow$  UTP cat5e (AWG24)/UTP cat6e (AWG23)

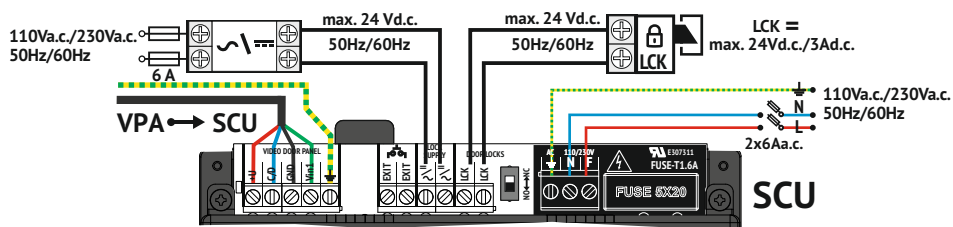


# 2

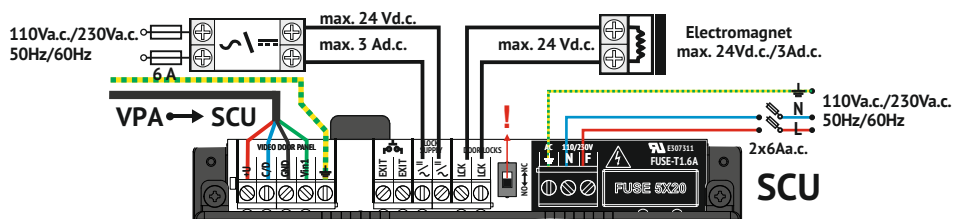


# 3

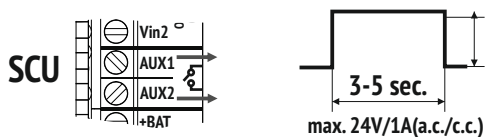
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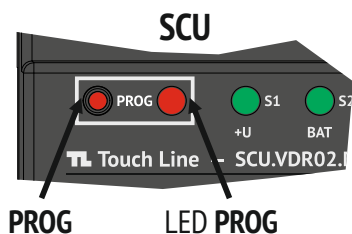
# 4



# 5

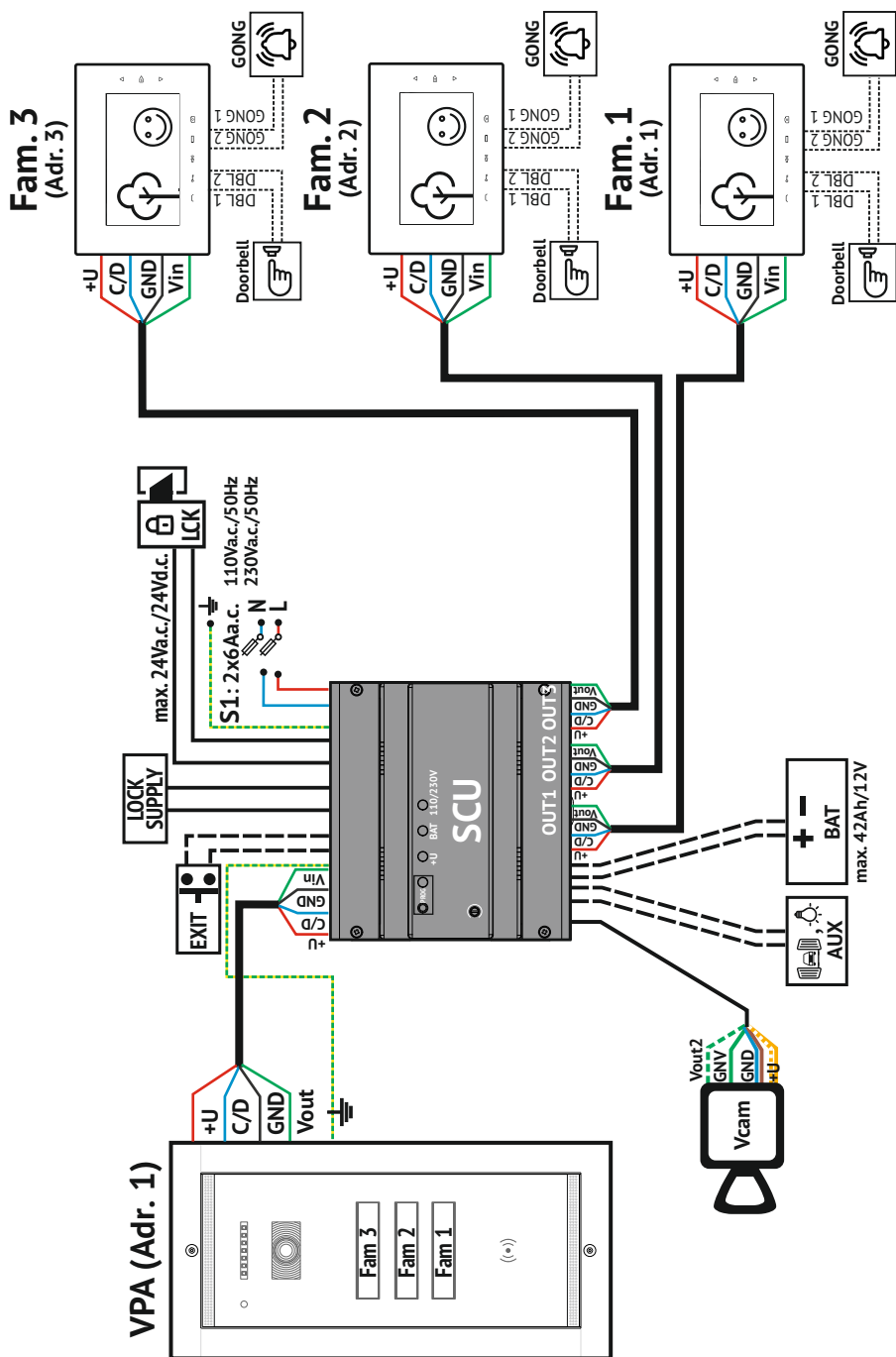


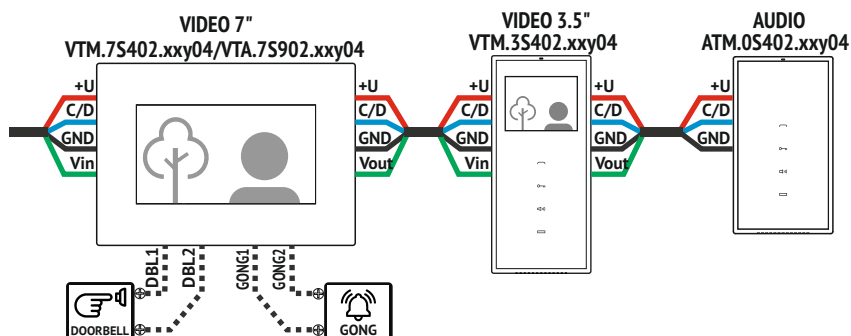
# 6



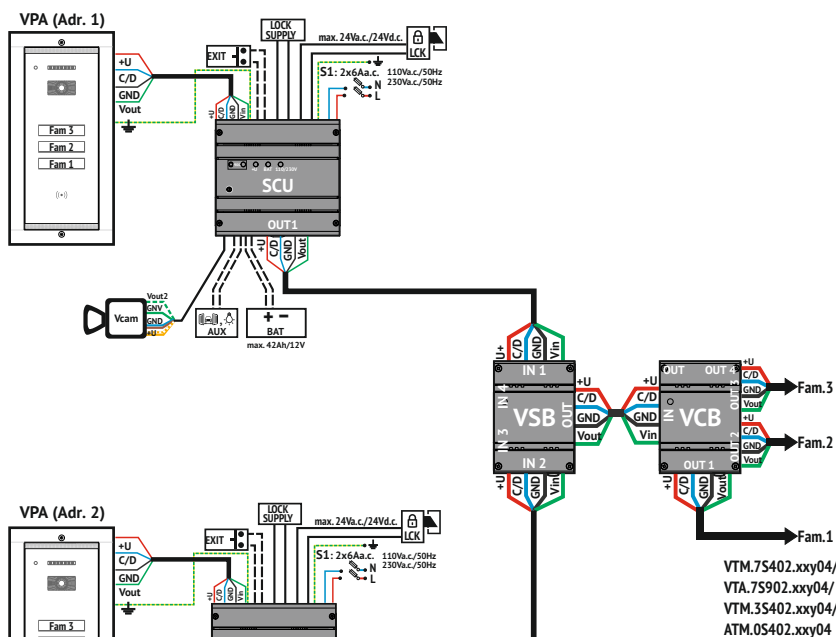








1 ➡  
VPA1  
(Adr. 1)



2 ➡  
VPA  
(Adr. 2)

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