

K-STEEL MODULAR VANDAL-PROOF PANEL

This range of panels is characterised by a high degree of protection from acts of vandalism and the modularity of the elements.

The system consists of modular stainless steel elements. Modules are secured to specially designed housings complete with flush-mounting back boxes, a structure which enables modules to be combined either vertically or horizontally.

Modular design reduces the number of different products used in the system, making stock management easier for both wholesalers and installers.

The K-steel line can be used in the following types of system:

- 4+n wire doorphone system;
- 1+1 wire doorphone system;
- B&W and colour coax video door phone systems with 4+n wire electronic call;
- B&W 5-wire video door phone system with electronic call.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Width, 1-row faceplate: **148 mm**
Faceplate protrusion from wall: **19 mm**
Recessed depth: **55 mm**

Maximum permissible recess error: **6 mm from finished wall**
Faceplate finish: **Bright stainless steel**
Urmet trademark: **On speaker unit**

Button body: **Bright stainless steel**
Total pushbutton stroke: **1.5 mm**
Pushbutton free stroke: **1 mm (before making contact)**
Insulation voltage across terminals: **50 V rms**
Max. break current: **2 A rms, resistive load**

Tag and button light: **LED**
Tag protection: **self-extinguishing polycarbonate**
Nameplate dimensions: **73 + 12 ⁽¹⁾ x 16.7 x 0.5 mm max**
(surface available for inscription = 58 x 16.7 mm)

Max. conductor cross-section: **1.5 mm²**
for button and lighting terminals:
Protection level: **IP 45 as per IEC 70.1**
Corrosion: **As per DIN 5342/64**
Test duration: **16 hours**
Temperature: **35°C**

⁽¹⁾ 12 mm = length of tab provided for removal purposes

CONFIGURATION

The system can be used for flush-mounting or wall-mounting; it consists of the following parts:

- **Modules;**
- **Frames;**
- **Flush mounting box with module holder frames;**
- **Accessories.**

MODULE SPECIFICATIONS

Each module is secured to the associated housing by means of threaded fasteners to ensure perfect alignment with the exterior frame.

System connections are made via terminal blocks on the rear of each module.

Modules are provided with a plastic rear protector, while a rubber gasket is installed between module and frame.

Pushbutton modules are provided with button and nameplate backlighting.

Nameplates are provided for engraving the user's name. Nameplates can be replaced only with plates of the same type supplied by Urmet-Domus; to replace, remove frame and take nameplate out.

Transparent nameplate covers can be replaced only after completely disassembling the module.

The wide range of modules can be combined in any desired configuration.

The dimensions of all K-Steel line modules are: 125 x 106 mm.

NAME TAG LIGHT

Pushbuttons and nameplates are lit by means of leds. Modules are illuminated by supplying terminals ~0 and ~12. The doorphone power supply unit used in the system is sufficient for a maximum of 2 modules. For a larger number of modules, an appropriate power transformer will be required.

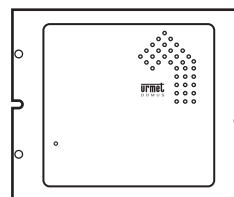
The 9000/230 transformer can supply a maximum of 5 button modules.

MODULES WITH DOOR UNIT

The following versions with built-in door unit are available:

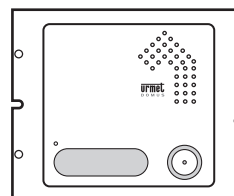
Without call button
for 4+n systems
for 1+1 systems

Ref. 1155/20
Ref. 1155/30



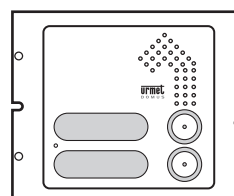
With 1 call button
for 4+n systems
for 1+1 systems

Ref. 1155/21
Ref. 1155/31



With 2 call buttons
for 4+n systems
for 1+1 systems

Ref. 1155/22A
Ref. 1155/32A



DESCRIPTION OF TERMINALS Ref. 1155/20, Ref. 1155/21 AND Ref. 1155/22A

	1	Traditional voice out (from speaker to door phone)
	1A	Electronic voice out (from speaker to door phone)
	-	Door unit power negative
	+	Door unit power positive
	2	Voice in (from microphone to door phone)
	~0	} Button and name tag light LED power
	~12	
	U2	Call button (Ref. 1155/22A module only)
	G/T2 (°)	Call button common (Ref. 1155/22A modules only)
	U1	Call button (Ref. 1155/21 and 1155/22A modules only)
	G/T (°)	Call button common (Ref. 1155/21 and 1155/22A modules only)

(°) this terminals are usually short-circuited and may be separated by the installer.

Note: use terminal "1A" in systems with electronic call door phone and terminal "1" for Mod. 1130 door phone.

DESCRIPTION OF TERMINALS Ref. 1155/30, Ref. 1155/31 AND Ref. 1155/32A

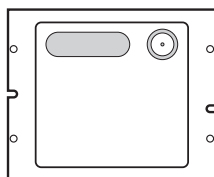
	PS	Tone generator output
	2	Electrical lock control
	5	(Electrical lock emergency relay control)
	F	Vioce
	SN	Video power on control signal
	3	Call buzzer (1130 door phones)
	~	Door unit power
	1/~	Door unit power earth
	4	Conversation privacy device power (Ref. 1155/31 and 1155/32A modules only)
	1	Conversation privacy device earth (Ref. 1155/31 and 1155/32A modules only)
	C1	Call button (Ref. 1155/31 and 1155/32A modules only)
	C2	Call button (Ref. 1155/32A only)
	~0	} Button and name tag light LED power
	~12	
	U2	Call button (Ref. 1155/32A module only)
	G/T2 (°)	Call button common (Ref. 1155/32A modules only)
	U1	Call button (Ref. 1155/31 and 1155/32A modules only)
	G/T (°)	Call button common (Ref. 1155/31 and 1155/32A modules only)

(°) this terminals are usually short-circuited and may be separated by the installer.

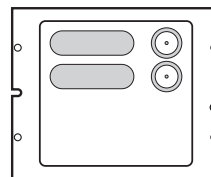
PUSHBUTTON MODULES

Pushbutton modules are supplied in the following versions:

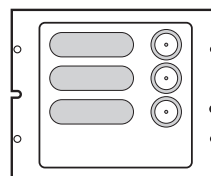
- One pushbutton **Ref. 1155/11**



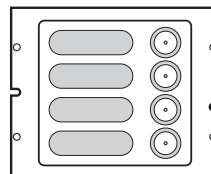
- Two pushbuttons **Ref. 1155/12A**



- Three pushbuttons **Ref. 1155/13A**



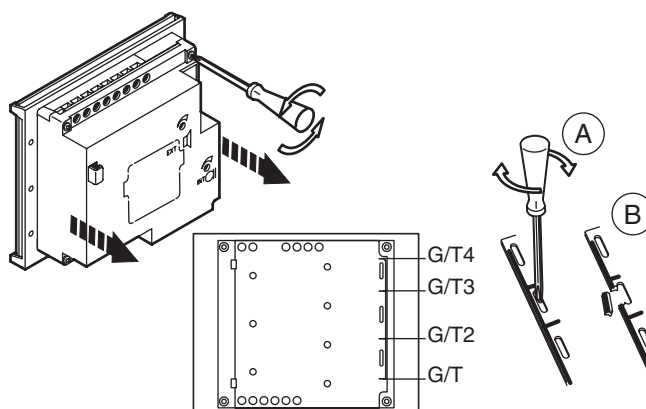
- Four pushbuttons **Ref. 1155/14A**



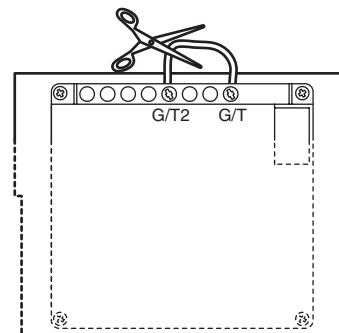
In addition to G/T and U terminals, all modules have ~0 and ~12 terminals for button and name tag lights.

CALL BUTTON CONTACT SEPARATION

Proceed as follows to separate G/T common contacts in 1155/12A, 1155/13A and 1155/14A button modules.



Simply cut the jumper between two terminals in 1155/22A and 1155/32A door unit modules.



Either groups or buttons or single buttons may be isolated according to the point where the contacts are separated (dotted X in the drawings).