DATA sheet

FLUSH-MOUNTED INDOOR TELECOM BOX

type PW1Z and type PW2Z

CODE: EM/TSM-PW1Z
EM/TSM-PW2Z

DESCRIPTION AND TECHNICAL CHARACTERISTICS

EmiterNet flush-mounted indoor telecom boxes (EmiterNet TSM) for flush-mounted installation are used for low-current (ICT/telecommunications) systems in buildings and make it possible to terminate the following cables in multi-family residential buildings, as required by the regulations: fibre optic cables, symmetrical pair cables (UTP) and coaxial cables, as well as to install active and passive devices in the box, and, if necessary, supply electrical power.

EmiterNet TSM boxes are also used in computer and internet, and multimedia network systems in single-family houses, as well as small office systems.

EmiterNet indoor telecom boxes meet the requirements of the Minister of Transport, Construction and Maritime Economy contained in the Regulation of 6 November 2012 amending the Regulation on technical conditions to be met by buildings and their location (Journal of Laws of 22 November 2012, item 1289).

The additional accessories include cable termination elements (SM SC/APC fibre optic sockets, RJ45 sockets, Cat. 5e or higher, and F-type sockets), optical fibre arrangement and protection elements (fibre optic cassette), box-mounted power sockets, etc.

FEATURES OF THE PRODUCT

- installation method: flush-mounted
- manufactured in 2 sizes
- cable feed from the bottom, top or side
- possibility to install the box with door opening to the right or left side
- front door vents, holes in the base of the enclosure
- possibility to include up to 8 keystone sockets (e.g. RJ45), 8 F-type sockets and 4 optical fibres (other combinations also possible) in a standard mounting bracket
- possibility to install the socket mounting bracket at the top or bottom of the enclosure
- removable universal (perforated) mounting plate included as standard
- service openings that allow installation in both hard walls (masonry) and plasterboard walls
- removable front frame with door
- possibility to install more than one box vertically
- lockable door
- possibility to connect protective earthing conductors to the base of the enclosure and front door (earthing points)

The cables are terminated in appropriate sockets or connectors mounted in the socket mounting bracket.

The arrangement and protection element (optional fibre optic cassette) can be mounted on the (perforated) mounting plate.

The active or passive devices can be mounted to the (perforated) mounting plate. When installing a fibre optic cassette, mount the active devices next to or on the cassette.

The electrical power can be supplied to a single or double socket mounted to the enclosure wall.

The dimensions of the boxes should be selected for the active or passive devices to be mounted in it; if necessary, 2 or more boxes can be mounted vertically, increasing the capacity.

(NOTE: the installer making the wiring is obliged to ensure proper insulation of connectors to provide protection against direct contact in accordance with the applicable regulations in force). In the case of installation of indoor telecom boxes with the power supply provided, the installation should be carried out by persons with the qualifications required by the relevant regulations.

RELATED PRODUCTS

EM/TSM-W1	TSM Equipment Set No. 1; includes 2x RJ45 keystone socket, Cat. 5e, 2x F-type socket, 1x SC/APC duplex fibre optic adapter, laser sticker
EM/TSM-W2	TSM Equipment Set No. 2; includes 2x RJ45 keystone socket, Cat. 5e, 2x F-type socket, 1x SC/APC duplex fibre optic adapter, 1x 230V 2P+G power socket laser sticker
EM/TSM-W3	TSM Equipment Set No. 3; includes 2x RJ45 keystone socket, Cat. 5e, 2x F-type socket, 1x SC/APC duplex fibre optic adapter, 1x 230V 2P+G power socket 2x fibre optic pigtail, 1 x fibre optic splice cassette laser sticker
EM/RPT-12M	Flush-mounted distribution board, 12-module, EmiterNet
EM-RPT-24M	Flush-mounted distribution board, 24-module, EmiterNet

ACCESSORIES

Not included as standard.

Note: for available equipment sets, see related products

EM/LIN-PE-25	Grounding cord (yellow-green stranded-core cable), 25cm long, cable lugs
EM/KAS-SW0	Fibre optic cassette with cover and fibre optic holder for EM/TSM
EM/ADSCAPCSMDX	Quickfibre SC APC SM duplex adapter, green plastic
EM/NAK-TRSW-90	Triangle laser sticker, 30x30x30, 90pcs sheet
EM/FA-682MK-8-C5E	UTP RJ 45 socket, Cat. 5e keystone, white
	(note: other compatible UTP sockets of the EmiterNet Structural Cabling System, Cat. 5e/6/6A - see below under section "Other TSM-compatible hardware")
EM/GN-F/F	Professional F-socket / F-socket adapter (female-to-female) SCETE
LE/782417	Low-profile single 2P+G surface-mount power socket for EM/TSM

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OTHER TSM-COMPATIBLE EMITERNET SOCKETS

DC/FA-682MKSF-8-C5E	UTP RJ 45 socket, Cat. 5e with adapter, 1-module, white, low
FU/FA-2630AK-8-C6	STP RJ 45 socket, Cat. 5e keystone, white
DCN/FA-682MK-8-C5E	UTP RJ 45 socket, Cat. 6 keystone, white
DCN/FA-S682MK-8-C5E	UTP RJ 45 socket, Cat. 6 with adapter, 1-module, white, low
DCN/FA-682MKSF-8-C5E	UTP RJ 45 socket, Cat. 5e keystone, blue
DCN/FA-1090-8-C6	UTP RJ 45 socket, Cat. 5e with adapter, 1-module, white, low
DCN/FA-1090SF-8-C6	RJ45 UTP socket, Cat. 5e keystone, blue (tool-free)
EM/FA-2630AK-8-C6	STP RJ 45 socket, Cat. 5e keystone, blue
EM/UQK-C6	UTP RJ 45 socket, Cat. 6 keystone, blue
EM/SQKSS-C6	UTP RJ 45 socket, Cat. 6 with adapter, 1-module, white, low
EM/SQKSS-C6A	UTP RJ45 socket, Cat. 6 keystone, blue (tool-free)
EM/KEY-F/F	STP RJ 45 socket, Cat. 6 keystone, blue
EM/KEY-RCA/RCA	STP RJ 45 socket, Cat. 6A keystone, blue
EM/KEY-HDMI/HDMI	STP RJ 45 socket, Cat. 6A keystone, blue (tool-free)
EM/KEY-HDMI/HDMI-DC	F-type female keystone socket, white
EM/ADAPT-HDMI-90	RCA-type female keystone socket, white
EM/KEY-BAN/BAN	HDMI type female keystone socket, white
EM/KEY-LC/LC	HDMI type female keystone socket, white
EM/KEY-USB3.0-A/A-DC	HDMI F/HDMI M 90-degree angle adapter
EM/KEY-BNC/BNC	BNC-type female keystone socket, white

Note: for some sockets the capacity of the box may be reduced due to their width (you need to install the sockets in every other hole).

STANDARD EQUIPMENT

enclosure (enclosure base)	1 set.
front frame with door	1 set.
perforated mounting plate	1 pc.
socket mounting bracket	1 pc.
lock with two keys	1 set.

The enclosure comes assembled as standard and packed in a protective film and cardboard box.

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TECHNICAL PARAMETERS

- colour: white RAL 9016*
- finish: enclosure (box) made of steel sheet protected against corrosion and powder-coated, removable metal frame with door
- installation: flush-mounted in hard walls or plasterboards
- ambient temperature: 0oC to +40oC
- operating environment: humidity: up to 50%
- Ingress protection class: IP20, IK05
- designed for indoor installation

*the shade of the color of the product from different production batches may be slightly different; this does not constitute grounds for a complaint

CERTIFICATES

Declaration of Conformity with the following standards: PN-EN 62208:2011; PN-EN 60670 – 1; PN-EN 61439-1:2011; PN-EN 61439 – 3:2012

EXTERNAL DIMENSIONS			MOUNTING PLATE DIMENSIONS	
Width [mm]	Height [mm]	Depth [mm]	Width [mm]	Height [mm]
355	330	112+2*	290	265 [185**]
355	475	112+2*	290	410 [330**]

* 90mm in-wall depth, 2mm front frame with doors
** with socket mounting bracket installed

DIMENSIONS OF THE RECESS[1]			
Model	Width [mm]	Height [mm]	Depth [mm]
EM/TSM-PW1Z	305[2]	285[2]	90
EM/TSM-PW2Z	305[2]	430[2]	90

[1] the dimensions given are the minimum dimensions; for the installation you need to choose a larger recess dimension, as appropriate at your own discretion, according to the tolerances and the method of installation and wall finishing selected

[2] the dimensions given are for the recess opening when the edge of the enclosure base (flange) can rest on the edge of the recess (wall)

DIMENSIONS OF THE RECESS FOR A COMBINATION OF TWO VERTICAL BOXES[1]

Type	Width [mm]	Height [mm]	Depth [mm]
PW1Z+PW1Z	305	615	90
PW1Z+PW2Z	305	760	90
PW2Z+PW2Z	305	905	90

[1] the dimensions given are the minimum dimensions; for the installation you need to choose a larger recess dimension, as appropriate at your own discretion, according to the tolerances and the method of installation and wall finishing selected

NOTE: FOR AVAILABLE EQUIPMENT SETS, SEE RELATED PRODUCTS

Sample order with additional equipment (other equipment options can be found in the price list) - for requirements in accordance with the Regulation of the Minister of Transport, Construction and Maritime Economy, ie. 2x SC/APC, 2x RJ45 and 2x F-type sockets constitute a set of flush-mounted indoor telecom box:

PRODUCT CODE	NAME	U.	QUANTITY
EM/TSM-PW2Z	Telecommunication flush-mounted residential box EmiterNet type PW2Z (with lock), dimensions:355 x 475 mm (width x height)	kpl.	1
EM/ADSCAPCSMDX	SC APC SM duplex adapter green (with flange)	szt.	1
EM/FA-682MK-8-C5E	UTP RJ45 socket cat. 5e keystone white	szt.	2
EM/GN-F/F	Professional F-female to F-female socket adapter (SCETE)[1]	szt.	2[1]
OTHER ELEMENTS			
GWN220P	Double surface-mounted power socket 2x2P for EM/TSM	kpl.	1
EM/KAS-SW0	Fiber optic cassette with cover and fiber holder for EM/TSM	kpl.	1
NAK-TRSW-90	Triangle laser sticker 30x30x30, sheet of 90 pcs.	szt.	1

[1] NOTE: the quantity given refers to the quantity required for installation in 1 box, while F-type sockets are sold in packages of 100 pieces.

model EM/TSM-PW1Z

model EM/TSM-PW2Z

equipment example
EM/TSM-PW2Z
(equipment is not included)

We have made every effort to ensure that the information presented is accurate and complete. However, we are not responsible for the accuracy and completeness of the data and, in particular, we cannot guarantee that this specification does not contain errors or mistakes. The information contained in this specification may be changed at any time without notice.

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