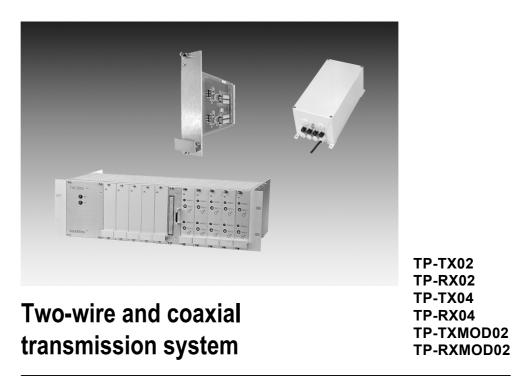
SIEMENS



• High transmission range of 1.5 km (with pre-emphasis in transmitter)

- Transmission of colour and monochrome video signals
- Indoor modules mounted in 19" chassis
- Outdoor modules fitted in weatherproof housing (IP54)
- Transmitter and receiver modules with space-saving 2-channel technology
- Receiver module suitable for equalisation of coaxial video signals
- Video failure monitoring with relay contact and LED display
- User-friendly installation and great expansion possibilities

The transmission of video signals on two-wire cables offers many benefits, ranging from the utilisation of the existing cable network, real-time transmission and interference resistance. Twisted, symmetrical, DC-coupled telecommunication cables such as telephone lines, or CAT5 cable are suitable as the two-wire cables.

Flexible system

The transmission system comprises of both transmitter and receiver (equalizer) modules. An outdoor weatherproof housing can store up to two of these modules and internally, the 19" chassis can store up to 10 modules. Both the outdoor housing and 19" chassis include the power supply as standard.

• Simple application

BNC sockets are used for connection of the coaxial cables (19" chassis: SMB). The two-wire cables are connected to terminal strips.

Cost-effective

The two-wire technology is a very cost-effective solution for transmitting pictures as it can use existing cabling infrastructure.

Fire & Security Products

Transmitter modules				
	TP-TXO2	TP-TXO4	TP-TXMOD02	
	2 cameras video transmitter, outdoor housing (IP54)	4 cameras video transmitter, outdoor housing (IP54)	2 cameras video transmitter, indoor (chassis mounted)	
Video inputs	2 x BNC 0.7 to 1.4 Vpp (75 Ohm)	4 x BNC 0.7 to 1.4 Vpp (75 Ohm)	2 x SMB 0.7 to 1.4 Vpp (75 Ohm)	
Video outputs two-wire	2 x two-wire terminal strips 2, 2.4, 2.8, 3.2 Vpp (adjustable to 124 Ohm, symmetric)	4 x two-wire terminal strips 2, 2.4, 2.8, 3.2 Vpp (adjustable to 124 Ohm, symmetric)	2 x two-wire terminal strips 2, 2.4, 2.8, 3.2 Vpp (adjustable to 124 Ohm, symmetric)	
 Output impedance 	124 Ohm	124 Ohm	124 Ohm	
Gain setting	manually selectable, pre-emphasis 8 dB at 5 MHz	manually selectable, pre-emphasis 8 dB at 5 MHz	manually selectable, pre-emphasis 8 dB at 5 MHz	
Crosstalk channel 1 – channel 2	50 dB at 5 MHz	50 dB at 5 MHz	50 dB at 5 MHz	
Over voltage protection	protection in output	protection in output	protection in output	
 RI suppression 	to EN 50081-1 (class B)	to EN 50081-1 (class B)	to EN 50081-1 (class B)	
Noise immunity	to IEC 61000-4	to IEC 61000-4	to IEC 61000-4	
Power requirements	± 5 VDC, 0.75 W (power supply included)	± 5 VDC, 1.5 W (power supply included)	± 5 VDC, 0.75 W (from chassis)	
Temperature of use	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C	
		266 x 105 x 120 mm	eurocard (160 x 100 mm), 30 mm high, 6 spacings	

Receiver (or coaxial equalizer) modules				
	TP-RXO2	TP-RXO4	TP-RXMOD02	
	2 cameras video receiver,	4 cameras video receiver,	2 cameras video receiver,	
	outdoor housing (IP54)	outdoor housing (IP54)	indoor (chassis mounted)	
Video input:	2 x two-wire terminal strips	4 x two-wire terminal strips	2 x two-wire terminal strips	
- two-wire	1.4 to 3.2 Vpp	o 3.2 Vpp 1.4 to 3.2 Vpp 1.4 to 3.2 Vpp		
	(up to 124 Ohm, symmetric)	(up to 124 Ohm, symmetric)	(up to 124 Ohm, symmetric)	
- coaxial	1.0 Vpp	1.0 Vpp	1.0 Vpp	
	(75 Ohm, asymmetric)	(75 Ohm, asymmetric)	(75 Ohm, asymmetric)	
- Input impodence	40, 76, 90, 124 Ohm,	40, 76, 90, 124 Ohm,		
Input impedance	selectable		selectable	
	2 x BNC	4 x BNC	2 x SMB	
 Video outputs coaxial 	1.0 Vpp	1.0 Vpp	1.0 Vpp	
	(75 Ohm, asymmetric)	(75 Ohm, asymmetric)	(75 Ohm, asymmetric)	
	(amplitude adjustable)	(amplitude adjustable)	(amplitude adjustable)	
Test output coaxial	1.0 Vpp	1.0 Vpp	1.0 Vpp	
	(75 Ohm, asymmetric)	(75 Ohm, asymmetric)	(75 Ohm, asymmetric)	
 Input voltage endurance 	Urms = 2.5 kV	Urms = 2.5 kV	Urms = 2.5 kV	
	0 to approx. 40 dB (5 MHz),	0 to approx. 40 dB (5 MHz),	0 to approx. 40 dB (5 MHz),	
	frequency-dependent,	frequency-dependent,	frequency-dependent,	
Equalisation	continuously adjustable with	continuously adjustable with	continuously adjustable with	
	4 switches and	4 switches and	4 switches and	
	5 potentiometers	5 potentiometers	5 potentiometers	
	+1 to -1.5 dB	+1 dB to -1.5 dB	+1 dB to -1.5 dB	
 Adjustment accuracy 	(50 Hz to 5 MHz) (cable A-	(50 Hz to 5 MHz) (cable A-	(50 Hz to 5 MHz) (cable A-	
	2YF(L)2Y 10 x 2 x 0.8)	2YF(L)2Y 10 x 2 x 0.8)	2YF(L)2Y 10 x 2 x 0.8)	

	TP-RXO2 continued	TP-RXO4 continued	TP-RXMOD02 continued
Gain setting	video output level	video output level	video output level
	manually adjustable	manually adjustable	manually adjustable
 Clamping 	at back porch	at back porch	at back porch
Power requirements	± 5 VDC, 2.7 W	± 5 VDC, 5.4 W	± 5 VDC, 2.7 W
• Fower requirements	(power supply incl.)	(power supply incl.)	(directly from chassis)
 Temperature of use 	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C
RI suppression	EN 50081-1 (class B)	EN 50081-1 (class B)	EN 50081-1 (class B)
Noise immunity	IEC 61000-4	IEC 61000-4	IEC 61000-4
Dimensions	266 x 105 x 120 mm	266 x 105 x 120 mm	eurocard (160 x 100 mm),
	200 x 105 x 120 11111	200 x 105 x 120 11111	30 mm high, 6 spacings

Internal 19" chassis and external weatherproof housing

TP-CH	TP-OH	
19" chassis with	Outdoor housing with	
power supply unit	power supply unit	
90 to 240 V, 40 W	115/230 V, 20 W	
50/60 Hz	50/60 Hz	
protection class II to DIN VDE	protection class II to DIN VDE	
0805	0805	
	IP54 to DIN 40050	
asymmetric: SMB* plug	asymmetric: BNC plug	
symmetric: terminal strip	symmetric: terminal strip	
asymmetric: SMB* plug	asymmetric: BNC plug	
symmetric: terminal strip	symmetric: terminal strip	
european appliance	european appliance	
plug (3-pin)	plug (3-pin)	
0 to +50 °C	-20 to +50 °C	
two-wire connections protec-	two-wire connections protec-	
ted by gas discharge beads	ted by gas discharge beads	
EN 50081-1 (class B) EN 50081-1 (class B)		
IEC 61000-4	IEC 61000-4	
19" x 3U	266 x 105 x 120 mm	
482.6 x 133.3 x 250 mm		
	19" chassis with power supply unit 90 to 240 V, 40 W 50/60 Hz protection class II to DIN VDE 0805 asymmetric: SMB* plug symmetric: terminal strip asymmetric: SMB* plug symmetric: terminal strip european appliance plug (3-pin) 0 to +50 °C two-wire connections protec- ted by gas discharge beads EN 50081-1 (class B) IEC 61000-4 19" x 3U	

System		
 Required signal cable: Two-wire transmission 	twisted or stranded, DC-coupled conductor pairs of a telecommunications cable which are not individually screened	
- Coaxial transmission	75 Ohm coaxial cable	
 Maximum range: Two-wire transmission 	1500 m with wire diameter 0.8 mm, PE-insulated with pre-emphasis switched ON in the transmitter 3000 m using TP-AMP2 intermediate amplifier	
- Coaxial transmission	1700 m with 48 dB attenuation at 5 MHz when using RG59 coaxial cable (approx. 2.3 dB loss per 100 m)	
Signal/noise ratio	<u>></u> 60 dB at 0 dB equalisation, with weighting	
Differential gain	≥ 0.97 at 0 dB equalisation	
Differential phase	<u> < 3° at 0 dB equalisation </u>	

*SMB is a standard mini-connector used in CCTV when there is not enough space for a BNC connector. The SMB name derives from "Sub Miniature B" (the second sub miniature design).

Туре	Part no.	Designation	Weight
Two-wire/coax	ial transmissior	units in 19-inch chassis	
TP-TXMOD02	2GF5604-8BA	Double two-wire transmitter module	0.12 kg
TP-RXMOD02	2GF5604-8BB	Double receiver module	0.15 kg
		19-inch chassis 3HU	-
TP-CH	2GF5608-8BA	with power supply unit for 10 modules and adapter board for adjustment of the receiver modules	3.00 kg
	ial transmission	n units in plastic housing	
iwo-wire/coax	101 11 01 13 11 13 5101	Two-wire transmitter	
TP-TXO2	2GF5604-8AA	With one double transmitter module	1.72 kg
TP-TXO4 2GF5604-8AB	Two-wire transmitter	4.0.4.1	
	With two double transmitter modules	1.84 kg	
TP-RXO2 2GF5604-8AC	Two-wire receiver/coaxial equalizer	1.75 kg	
		With one double receiver module	1.70 Kg
TP-RXO4	2GF5604-8AD	Two-wire receiver/coaxial equalizer With two double receiver modules	
			1.90 kg
TP-AMP2	2GF5604-8AE	Two-wire intermediate amplifier (repeater) With one double receiver module	1 07 ka
	201 0004-0AL	and one double transmitter module	1.87 kg
TP-OH	2GF5608-8BC	Plastic housing (IP54) to accommodate 1 or 2 modules	1.60 kg
Accessories (n	ot included in c	••	
		Dummy panel set for covering unused slots,	
TP-CHDP	2GF5608-8BB	including:	0.10 kg
		4 x 2 slot dummy panel 2 x 1 slot dummy panel	
SIM-SMB/BNC	2GF5608-8AP	75 Ohm coaxial cable with SMB socket/BNC plug 2.5m	
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