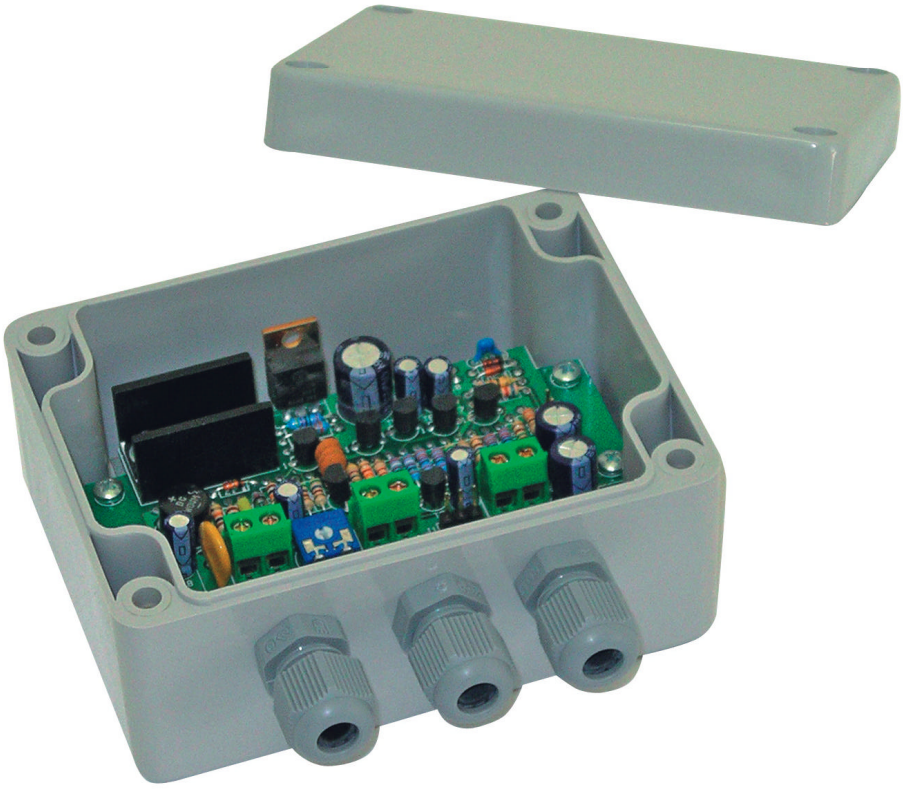
ASTEL CCTV



TT 101

VIDEO TWISTED-PAIR TRANSMITTER

OPERATING INSTRUCTIONS *v2.0*

CONTENTS

CE

This unit is produced to comply with Directive 89/336/EEC.

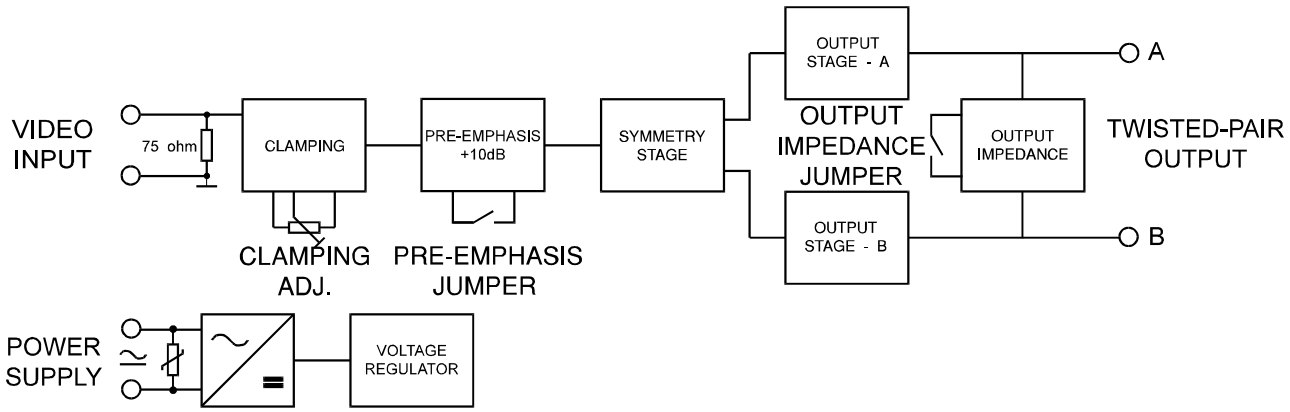
PREFACE

The video twisted-pair transmitter TT 101 is a correction amplifier with the standard asymmetrical video input and symmetrical output which is adjusted to connect the twisted-pair cable. It is mounted in ABS casing. There is a small metal saucer inside of the casing and the transmitter can be easily installed into the casing of a video camera for outdoor use. The choice of output impedance allows the use of different kinds of cables.

FEATURES

- small dimensions
- simple connecting
- AC/DC power supply
- low power consumption
- over-voltage protection
- dual output impedance
- pre-emphasis +10 dB / 5 MHz

BLOCK DIAGRAM

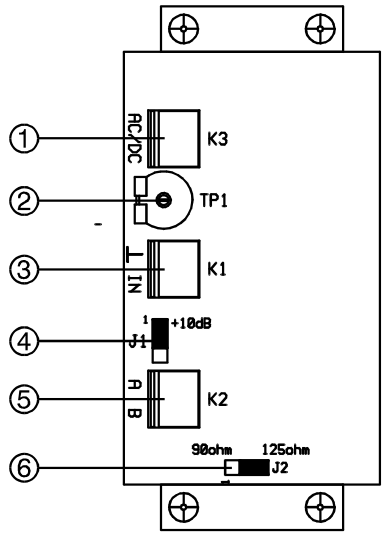


PRINCIPLE OF OPERATION

The input is closed with the impedance of 75 Ω.
The clamping is set with the trimmer TP1. Then follows the stage which defines the pre-emphasis. By means of the symmetry stage two signals separated by 180° appear, which are led to the output stages A and B.

The output impedance jumper enables a choice of output impedance - 125 Ω or 90 Ω.
The power is supplied by connecting to the AC or DC power supply unit.

CONTROLS AND CONNECTORS



(1) AC/DC POWER SUPPLY
Power supply terminal block connector.

(2) TP1
Clamping adjustment trimmer.

(3) VIDEO INPUT
Video input terminal block connector.

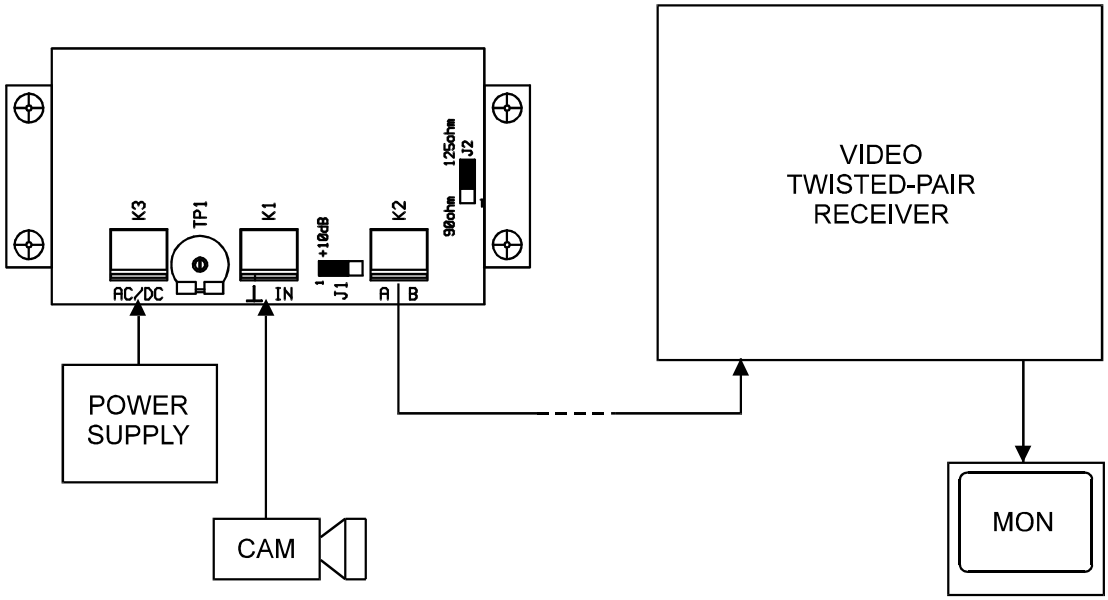
(4) J1
Pre-emphasis jumper.

(5) TWISTED-PAIR OUTPUT
Twisted-pair terminal block connector.

(6) J2
Output impedance jumper.

CONNECTIONS

- Be sure to switch-off the power supply unit before connecting to other equipment.
- Also refer to the instruction manual of the equipment to be connected.



INSTALLATION

(1) Set the jumper **J1** to 0 dB.

(2) Set the jumper **J2** to correct position. (125 ohm for PE or PAPER, 90 ohm for PVC cable insulation)

(3) Connect the power supply unit (AC or DC) to the **K3**.

(4) Connect the video test generator (1 Vpp / 75 Ω) to the **K1**.

(5) Switch-on the power supply unit.

(6) Switch-on the video test generator.

(7) Check the positive video output signal between **A** and ⏚.

(8) Check the negative video output signal between **B** and ⏚.

(9) Switch-off the power supply unit.

(10) Switch-off the video test generator.

(11) Disconnect the video test generator.

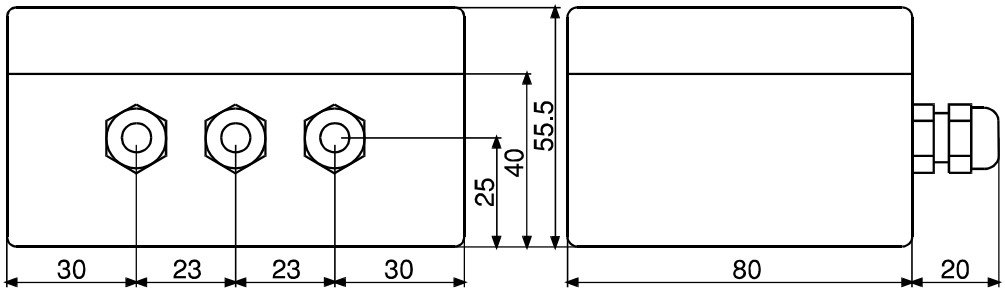
(12) Connect the twisted-pair cable to the **K2**.

(13) Connect the video source (video camera) to the **K1**.

Note:

- Do not adjust the trimmer **TP1**.

APPEARANCE



SPECIFICATIONS

Video input	:	1 Vpp, 75 Ω
Video output	:	2 x 2 Vpp
Output impedance	:	125 Ω / 90 Ω (**J2**)
Freq. response	:	30 Hz - 5 MHz (–0.5 dB)
Pre-emphasis	:	+10 dB, 5 MHz (**J1**)
Power supply	:	24 V, AC/DC, 100 mA max.
Power supply protection	:	varistor
Casing	:	ABS
Dimensions	:	106(W) x 55.5(H) x 100(D) mm
Protection	:	IP - 65 (VDE)

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