



ACTIVE PATCH PANEL SET 8 CHANNELS

SYMMETRIC TRANSFER OF 8 SIGNALS $\pm 10V$

**Ability to send signals over long
cable lengths upto 100 m**

Common mode I/P rejection 100 dB

Harmonic distortion $< 0.01\%$

100 kHz bandwidth

The Line Transmitter/Receiver allows the symmetric transfer of 8 analogue signals $\pm 10 V$ upto 100 m with almost zero degradation to the signal and an I/P common mode rejection of 100 dB at 50 Hz

- ✓ **Separate and identical power supplies**
- ✓ **Shielded twisted pair**



ACTIVE PATCH PANEL

TRANSMITTER RACK OVERVIEW

The I/P signal is first filtered by an RC network before being applied to the balanced line driver transmitter. The balanced line for each channel is fed to the D type socket with its individual screen. Inputs/outputs are protected against voltage peaks by bi-directional diodes.

Various configurations are permitted, to reduce the potential problems related to the use of long cable lengths and unbalanced coaxial cables.

RECEIVER RACK OVERVIEW

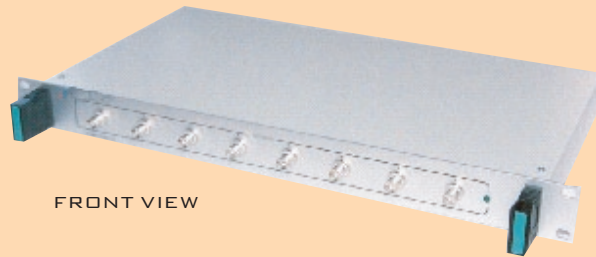
The balanced line from the transmitter is sent to the differential line receiver which converts the signal back to an unbalanced signal.

The output signal is conditioned using a high quality BURR BROWN operational amplifier before being output on the BNC connector. Inputs/outputs are protected against voltage peaks by bi-directional diodes.

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

TRANSMITTER & RECEIVER RACKS

Dimensions	19"-1U-250 mm
L x H x P	483 x 45 x 250 mm
Weight	1.5 kg
Operating temperature	0 °C to +50 °C

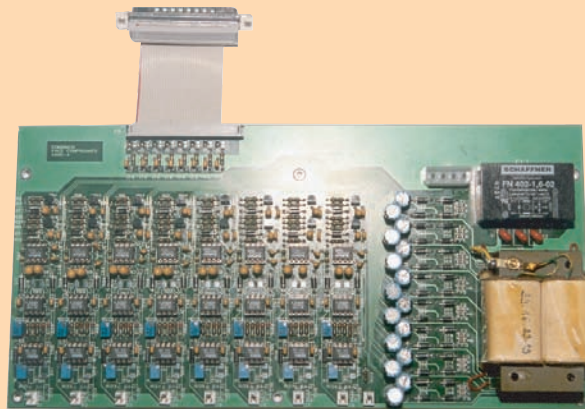


FRONT VIEW

ELECTRICAL SPECIFICATIONS

RACK SYSTEM SPECIFICATIONS

Power Supply	230 V a.c
Current	110 mA
Short-circuit protection	0.5 A Fuse 5 x 20 mm
Trans./Rec. distance	< 100 meter
Connection	D type
Channel number	8
Input Level	± 10 V
Input Impedance	20 kΩ
Accuracy	< 0.1% FS
Bandwidth at -1 dB ($V_E=7.07 V_{RMS}$)	170 kHz
Bandwidth at -3 dB ($V_E=3.54 V_{RMS}$)	400 kHz
Gain	1
Output residual noise	0.3 mV _{rms} (BW 100 kHz)
Crosstalk	< -80 dB
Common Mode Rejection	-100 dB at 50 Hz
Low distortion	subject to filter frequency 0.01 %
Short-circuit protection	Yes



Input voltage peak protection	YES, transitory, EDS, 30V max. permanent
Output voltage peak protection	YES, transitory, EDS 30V max. permanent

REAR VIEW



All D2T products benefit from a one-year back-to-factory parts and workmanship warranty. Technical specifications may be modified without prior notice.