

Input Section

Impedance	10KOhm, electronically balanced.
Max Input Level	+20dBv.
Input CMRR	Better than -50dB 30Hz-20Hz.
Input Connector	XLR3-31 or equivalent. Wired as pin 1 o/c, pin 2 cold, pin 3 hot.

Output Section

Impedance	Less than 1 Ohm unbalanced, current limited.
Max Output Level	+20dBv into 600 ohms.
Output Gain	+ 20dB continuously variable.
Output Connector	XLR3-32 or equivalent. Wired as pin 1 earth, pin 2 earth, pin 3 hot.

System Performance

Frequency Response	+ 1dB 25Hz-20kHz. Ultrasonic filter -3dB@ 30kHz.
Noise	Equiv. input noise -86dBv 22Hz -22kHz, -82dBv CCIR weighted.
Distortion	Unity gain, + 10 dBm output, below threshold: THD 0.03% 20Hz-20kHz.
3rd Harmonic 0.05%.	IMD 0.01% SMPTE, 10 dB compression. Threshold 0dB. 1kHz, 5 sec rel. time setting: 2ND HARMONIC 0.15%. IMD 0.25% SMPTE. Harmonic distortion in this type of equipment will increase with reduced frequency and shorter time constants.
Crosstalk	better than -85dB 20Hz -20kHz.

Compressor

Threshold	-30 to +20 dBv cont. variable.
Compression Ratio	1:1 continuously variable to infinity:1.
Max. VCA Range	30dB.
Attack Time	11 steps 50µsec-80msec.
Release Time	10 steps 5msec to 5 sec and AUTO.
Auto Time Constant	Attack times are measured at 63% of final gain reduction with step signal 8dB above threshold. Release times are measured at 63% of open gain or removing a signal 8dB above threshold. A two part program-dependent time constant. Typical attack time is 200 µsec on fast transients, release time 10msec for 63% recovery from a 10dB 4msec response, and 1 sec for a 10dB 40 msec response.

De-esser

Threshold Range	-30 to +20 dBv continuously variable.
Ratio	Infinite, at and above twice the set frequency.
Frequency Range	800Hz to 15kHz continuously variable. Frequency is that at which 3dB of gain reduction occurs for 10dB of signal overdrive above threshold. 10dB of gain reduction will occur at and above twice this frequency.

Peak Limiter

Threshold Range	+4dBv to +20dBv continuously variable.
Ratio	20:1.
Attack Time	Fast setting 150µsec, Slow setting 750µsec.
Release Time	Fast setting 100msec, Slow setting 500msec.

Dimensions and Electric's

Size	482 x 44 x 228mm (19in x 13/4in x 9in) overall.
Weight	4.5kg packed.
Electrical Supply	120-220V +105-20% 50/60Hz 15VA. Power supply is designed with high low-voltage tolerance to meet road show requirements.

Options

Security Panel	For applications which require a recessed blank front panel unit, a security cover kit is available to convert the DPR402 into a fully tamper-proof rack mounting unit. All front panel controls are then hidden behind a blank steel panel.
Output Balancing	A separate output balancing unit is available to provide full transformer balanced and floating output sends to drive 600 ohm loads.
Frequency contouring	The DPR402 has internal insertion points on the control and subtract side-chains so that fixed filter networks can be fitted giving users any standard form of emphasised contouring to the compressor action. This does not interfere with the normal de-essing functions.