

## Compressor Amplifier type 179-120

The Compressor contains a wide range of variable attack and recovery times, including a programme dependent recovery time called AUTO and a switchable recovery delay. In order to operate with long attack times the Compressor is provided with a fast symmetrical Limiter, which because of its logarithmic function adds very little distortion.

A LED on the front panel indicates limiting. The limiter level is switchable normal or high.

The ratio and the amount of compression may be changed independently and still the output remains constant. A 1 mA instrument may be connected to show the actual compression in dB.



#### TECHNICAL SPECIFICATIONS

Supply Voltage Maximum Ripple Voltage Current Consumption Temperature Range Frequency Range (0.5 dB points)

Input Filter

Input Impedance within freq. range Output Impedance within freq. range

Minimum Load Impedance

**Basic Amplification** Compression Range

Compression Ratio

Attack Time

Recovery Time

"Auto"dual time constants

Recovery Delay

Distortion under static conditions

Signal to noise ratio at compression threshold

Output noise at Rg= $200\Omega$ 

24 V dc ±10% Note 1. 0.1 V pp, 20 Hz to 20 kHz approx. 100 mA  $-20 \text{ to } +60^{\circ}\text{C} (-4 \text{ to } +140^{\circ}\text{F})$ 20 Hz to 20 kHz

see fig. 2

see Input Terminations fig. 3 see Output Terminations fig. 4

100 ohms, see fig. 4 0 to 15 dB see fig. 1

see fig. 1

adjustable 1:1 2:1 3:1 5:1 20:1

adjustable 100 microseconds/20 dB to 200 milliseconds/20 dB (11 steps)

adjustable 60 milliseconds/20 dB to

4 seconds/20 dB and one "Auto" position (11 steps)

200 msec, upon 15 seconds. switchable 0 or 50 milliseconds

less than 0.5% up to 20 dB gain reduction

80 dB A-curve typical

Either polarity of the power supply may be grounded. A build-in active voltage splitter provides an internal common reference (+ 12 V dc). This reference is available at terminals 19 and 7 for the input and output respectively.

### NTP ELEKTRONIK A/S

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Reg. No. 32426

# Compressor Amplifier

### type 179-120

compression 15 dB Ratio 2:1

Instrument Output

less than -86 dBu A-curve

0 to 1 mA for 0 to 20 dB compression

Linear dB scale

**Limiter Function** 

Attack Time

1,5 msec. combined with a full-wave logarithmic circuit which limits peaks shorter than 1,5 msec. to a level max.

3 dB above steady state.

Following the recovery time set for the compressor

Recovery Time

Steady State Limitation:

Threshold "Normal"

+6 dBu output with any of the three output-termina-

tions shown in fig. 4

Steady State Limitation:

Threshold "High"

+19 dB output when using the 0.7:1 output trans-

former fig. 4 C

+16 dBu output when using the direct output or the 1:

1 output transformer fig. 4 A and B

The GaAs diode lights up during limitation

Dull black

Amphenol Tuchel 2700 000

see drawing

0,900 kg

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Limiting Indicator

Standard Colour Connector

Mechanical Outlines

Weight

#### Stereo Operation

The control voltages of two units may be linked so as to obtain equal gain reduction in the two stereo channels. The control voltage is accessible at the connector. Gain reduction versus control voltage 5 dB per volt.







