

SOUND LEVEL
CONTROLLERS
WITH RESPECT
FOR MUSIC

DATEQ
audio technologies



To prevent unwanted alteration of the connection of the limiter, all connectors of the SPL-limiters are inaccessible after the limiter has been sealed.

AUDIO

Frequency response:	20Hz – 20KHz
Signal/noise ratio:	>80dB
TH D:	<0.05%

SIZE AND WEIGHT

Front:	483 x 45 mm (B x H) = 19, 1HE
Depth:	175 mm
Weight (net.)	3.2 kg (SPL2 / SPL3), 3.5 kg (SPL2TS / SPL3TS)

POWER SUPPLY

Supply voltage:	220...240VAC/50Hz
Power consumption:	20 W

EXTERNAL SIGNALING

External attenuation:	0 .. -20 dB (10K ohm variable resistor)
Signalling- and switch outputs:	20V/ 10 mA DC

LIMITTING

Limiter threshold: (adjustable)	-14 .. +6 dBu (without measuring microphone)
Limiter threshold: (adjustable)	80 .. 120 dBA (with measuring microphone)
Output reduction: (adjustable)	0 .. -40 dB (without measuring microphone)

INPUTS

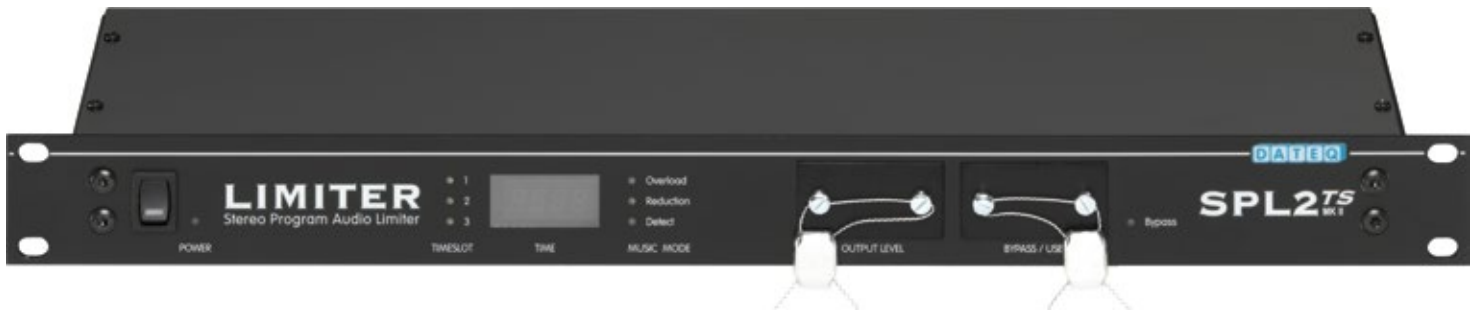
MIC (measuring microphone):	XLR-3 female, electronically balanced, use only the supplied microphone
LINE (Left & right):	XLR-3 female, electronically balanced

OUTPUTS

LINE (Left & right):	XLR-3 mate, electronically balanced Output impedance 600 W
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Dateq Audio Technologies B.V.
De PaaI. 37, NL-1351 JG Almere
Tel: (+31) 365472222
Fax: (+31) 36 53 17776
E-mail: info@dateq.nl
Website: www.dateq.nl



Sound level controllers with respect for music

More and more often pubs, clubs and discotheques have to install a limiter to reduce the noise burden to the environment. For this particular group of users Dateq developed a series offer limiters which meet the highest standards available in sound control: the SPL 2, SPL 3, SPL 2TS and 3TS.

DATEQ's new MKII SPL series Sound Pressure Limiters offer a new and vastly improved method to control sound levels during performances of DJ's and Live bands. With maximum sound quality but without any of the disturbing effects common to normal limiters like pumping, distorting or other unpleasantness!

This is due to the fact that SPL Limiters are not peak limiters! They keep the real acoustical average sound pressure Level below the set threshold while leaving short signal transients unharmed. The dynamics of the music thus remain completely natural!



Thanks to the built in Led clock/timer you are free to program a completely different sound level at different periods of the day.



SPL USB port

After a SPL leveller has been set to the (measured) maximum sound pressure Level, the specially designed microprocessor continuously and transparently adjusts the output signal if it exceeds the threshold.

General specifications

ALL levellers have 3 status LEDs:

- Detect
signal level exceeds set threshold
- Reduction
signal level is reduced
- Overload
signal level exceeds threshold by +14dB
At the "overload" indication the SPL will decrease the signal by 20dB to prevent overloading of the sound system.

The SPL 3 and SPL 3TS have 2 additional LIVE MUSIC MODE Led's:

- Warning
Level of the band exceeds threshold, warning indicator will Light.
- Sanction
the stage power supply is cut during 20 seconds while level has not been reduced after previous warning

The clock in the SPL TS Limiters divides each day into 3 timeslots with independent output Level settings.

This feature creates the possibility to use a higher sound level during the day, while at night the lower level (Legislated by the Local authorities) is maintained. The SPL 2TS and SPL 3TS come with factory presets that conform to the general rulings. If local legislation demand any deviation of these presets, the sound installer can re-adjust the necessary parameters. DATEQ SPL limiters will maintain the best possible sound quality at all times and under all circumstances.

The SPL-3 microphone continuously measures the actual sound pressure level. Any tampering with the measuring microphone (disconnecting, shorting or cutting the cable) is seen by the SPL 3(TS) as sabotage. It immediately shuts off the audio output and activates the Sanction output.



The SPL-3 microphone continuously measures the actual sound pressure level.

Easy to use Software

Thanks to the built in Led clock/timer you are free to program a completely different sound Level at different periods of the day. The built in calendar allows you to program a list of 10 dates to switch the limiter to bypass automatically. Thanks to the user-friendly software the installer can easily program three different sound Levels at independent periods per day.



SPL-2 MKII



SPL-2 TS MKII



SPL-3 MKII



SPL-3 TS MKII

