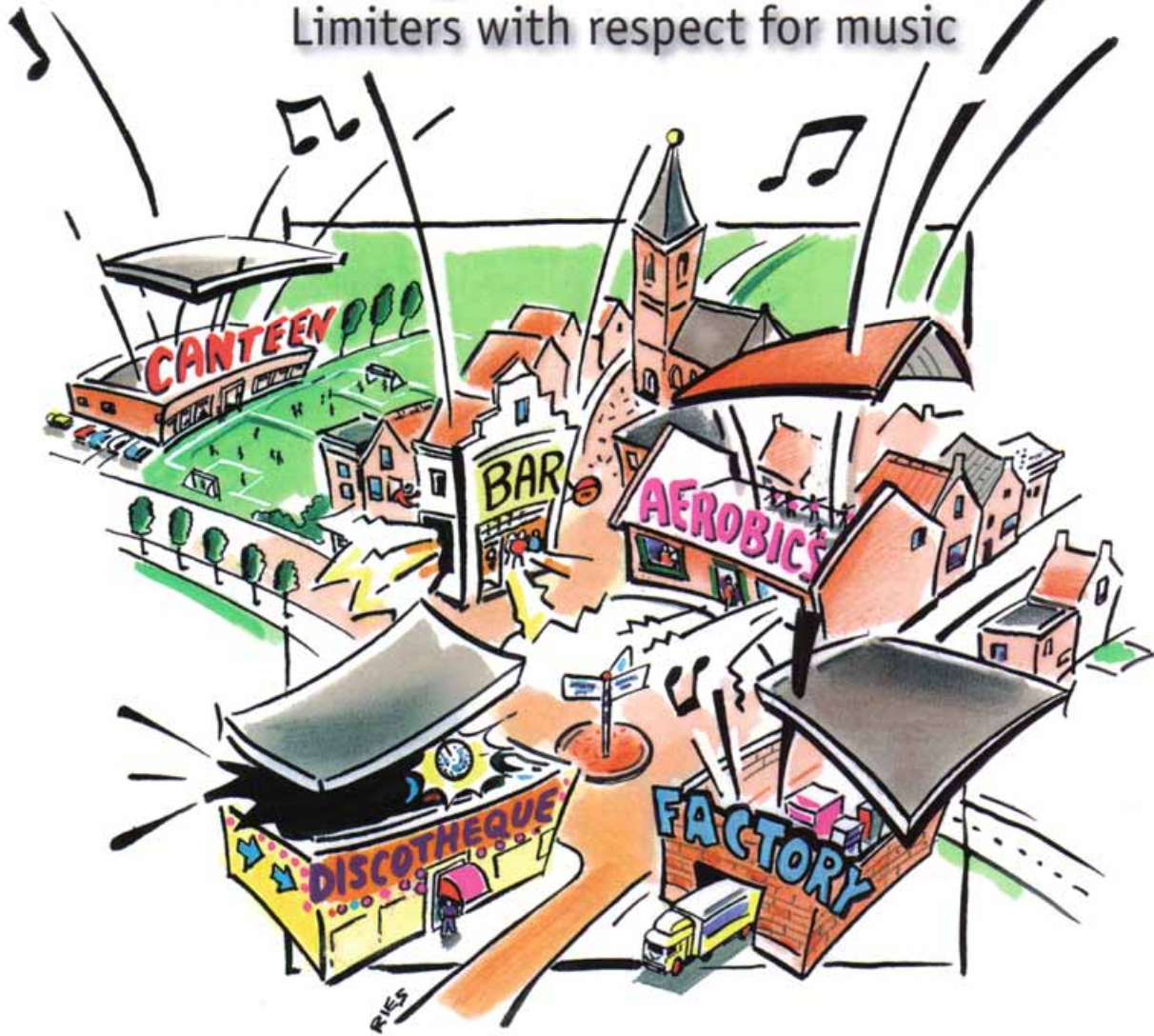


DATEQ SPL LIMITERS

Limiters with respect for music



DATEQ
audio technologies

More and more often pubs, clubs and discotheques have to install a limiter to comply with the local regulations. For this particular group of users DATEQ developed a series of limiters which meet the highest standards available in sound control.

Dateq's SPL-series Sound Pressure Limiters offer a new and vastly improved method to control sound levels during performances of DJ's and live bands without affecting too much of the sound quality.

Dateq Distortion Free Dynamical Limiter System

The word limiter sometimes has a bad taste for users. It causes limitations, rather than advantages. Dateq SPL limiters use refreshing new techniques without disturbing effects like pumping and distortion.

This is due to the fact that our limiters are not peak limiters. They keep the acoustical average sound level below the set threshold while leaving the dynamics merely untouched. Short peaks and dynamics stay untouched. The μ Processor continuously monitors and controls the output signal to the maximum set value.

Time Slot Limiters

The TS limiters are equipped with a time clock to divide each day into 3 time slots with independent settings.

The built-in calendar allows you to program a list of 20 dates to switch the limiter to

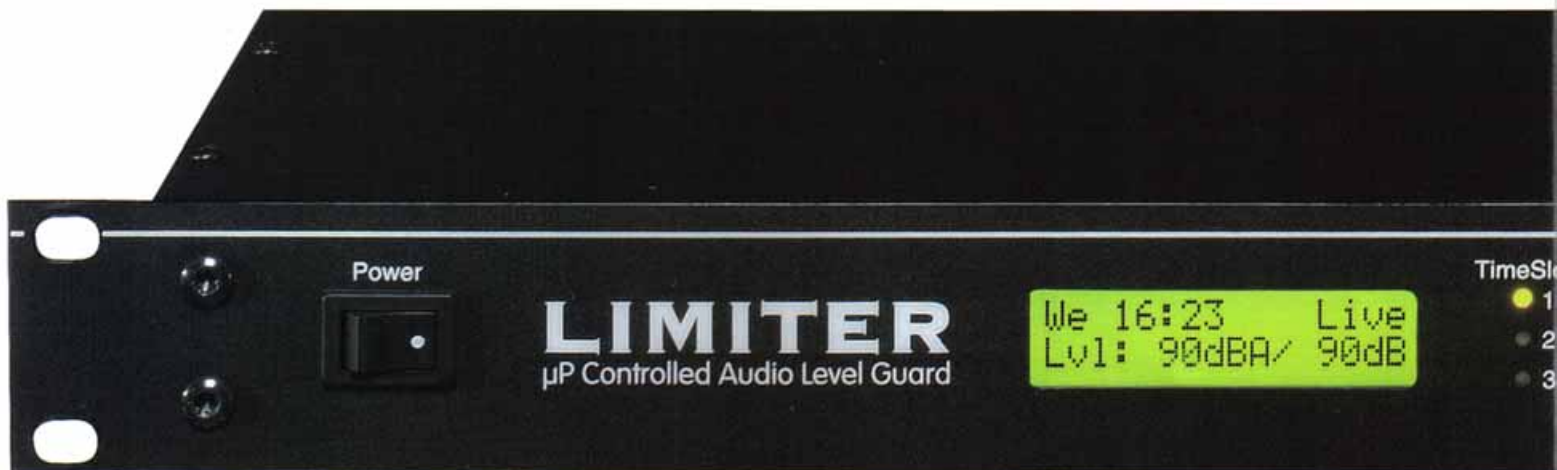
bypass automatically (models SPL2 TS and SPL3 TS).

DATEQ SPL LIMITERS

μ P Controlled Audio Level Guard

Problems... solved!

Enthusiastic players of a live band normally will exceed the allowed level. The Dateq measuring microphone made for the SPL3, SPL3 TS and SPL5 will assure accurate limiting of these sound levels by continuously adjusting its settings to the maximum allowed level. When sound level are exceeded for a longer time a sanction will follow. Short circuiting, and tampering of the microphone is seen as sabotage, and will also immediately shut down the audio outputs. The SPL5 also has an option to connect a three stage warning light, that will indicate the SPL status.



DATEQ SPL5

A state of the art Limiter. This limiter can be programmed to be accurate within 1dB and is capable of storing data for a period of two months. Data and settings can be accessed and programmed by computer over a network.

Microphone controlled

The SPL5 measures the audio level by means of a microphone; the μ P continuously samples this level and attenuates the output as much as necessary to keep the sound level below the given threshold.

Live and line level limiter

The SPL5 can be used in live-situations to monitor the audio level produced by a live-band, and sanction if necessary by cutting off the mains voltage or give an optical indication to the band. In a non-live situation where music is played over the PA-equipment the SPL5 is inserted between the mixer and amplifiers. It uses the microphone to determine the audio level, and attenuates the output level if required.

Setup and data storage

Configuring the limiter is done with easy to use software. In auto setup mode the computer fully automatically measures the sound level, and calibrates the limiter. Sound-level data and event history are stored for a period of two months.

The SPL-D2 Sound level Display

This oversized display unit is the perfect extension to the SPL5. It can be connected to the SPL5 or as a stand alone unit with a separate Dateq SPL measuring microphone.

The Multi segment Bicoloured LED display unit shows the actual sound level and when a preprogrammed threshold level is exceeded the LED's will light up in red. The LED bar can be set to function as a VU meter or to display the reduction.

Cabinet size: 12,5 x 25 x 4,6 cm (HxWxD).





DATEQ SPL2

The SPL2 is a basic limiter that guards the sound pressure level under all circumstances. It offers a cost effective solution to sound level problems.

This limiter is recommended as 'best buy' by an increasing number of professional sound installers.



DATEQ SPL3

The SPL3 limiter is ideal for live performances with bands that use their own sound system. The measuring microphone and the sanction output also

controls the sound level of the bands PA system. Even with a sold out house!

Dateq Limiter Cross Reference

Model	TimeSlots	Microphone	dBA readout	Data storage	Sample memory
Dateq SPL2	-	-	-	-	-
Dateq SPL3	-	●	-	-	-
Dateq SPL2TS	●	-	-	-	-
Dateq SPL3TS	●	●	-	-	-
Dateq SPL5TS	●	●	●	2 months	2 months



DATEQ SPL2 TS

Thanks to the built in clock/timer, different sound levels can be programmed at different periods of the day. In addition the built in calendar allows

programming of a list of 20 dates that switch the limiter to bypass automatically.



DATEQ SPL3 TS

Practically identical to the SPL2TS, but with the advantage of a microphone circuitry that also controls sound levels during live performances.

The advantages

SPL Series

The SPL series limiters are the easiest way to control the sound pressure level. This is done without the usual disadvantages of 'peak limiters'.

Live Music Mode

The Dateq SPL 3 and 3TS Limiters are equipped with 'Live Music Mode' which also controls the sound levels of live performances. The limiter of choice for bars and clubs.

Time Slot Programming

Time slot switched programmes will provide optimized playing levels during every moment of the day.



Technical specifications

Inputs	
Mic (measuring microphone)	XLR-3 female, electronically balanced Use only supplied microphone
Line (left and right)	XLR-3 female, electronically balanced
Signal level	-14..+6dBu
Input impedance	10kOhm
Outputs	
Line (left and right)	XLR-3 male, electronically balanced
Output impedance	600 Ohm
Audio	
Frequency response	20Hz ...20kHz
Signal/noise ratio	>80dB
THD	< 0.05%
Limiting	
Limiter treshold (adjustable)	-14..+6dBu
Limiter treshold (adjustable)	80..120dBa
Output reduction (adjustable)	0..-40dB
External signalling	
External attenuation	0..-18dB
Signalling-and switch outputs	15V/10mADC
Power Supply	
Supply voltage	220-240 VAC/50Hz
Power consumption	10W
Size and weight	
Front	4830x 45 mm (w x h) = 19, 1 HE
Depth	175 mm
Weight (net.)	3.5 kg

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