



Martin Oosthuizen

F45 Gym

22 Central Ave Manly

03 December 2016

Re Acoustic Compliance

Martin further to our correspondence in relation to the acoustic compliance for
DA289/2015 specifically regarding testing and installation of an RMS Limiter.

I can confirm that the limiter has been installed in accordance with the below
conditions

ANS08

The premises must comply with the following:

- (a) The LA10* noise level emitted from the premises shall not exceed the background noise level in any Octave Band Centre Frequency (31.5Hz-8kHz inclusive) by more than 5dB between 7:00am and 12 midnight at the boundary of the premises**
- (b) The LA10* noise level emitted from the premises shall not exceed the background noise level in any Octave Band Centre Frequency (31.5Hz-8kHz inclusive) between 12 midnight and 7:00am at the boundary of the premises**
- (c) Notwithstanding compliance with the above, the noise level from the premises shall not be audible within any habitable room in any residential premises between the hours of 12 midnight and 7:00am**
- (d) The LA10* noise level emitted from the premises shall not exceed the background noise level in any Octave Band Centre Frequency (31.5Hz-8kHz inclusive) by more than 3dB when assessed indoors at any occupied commercial premises whilst that premises in in operation**

***(for the purposes of this condition, the LA10 can be taken as the average maximum deflection of the noise emission from the premises).**

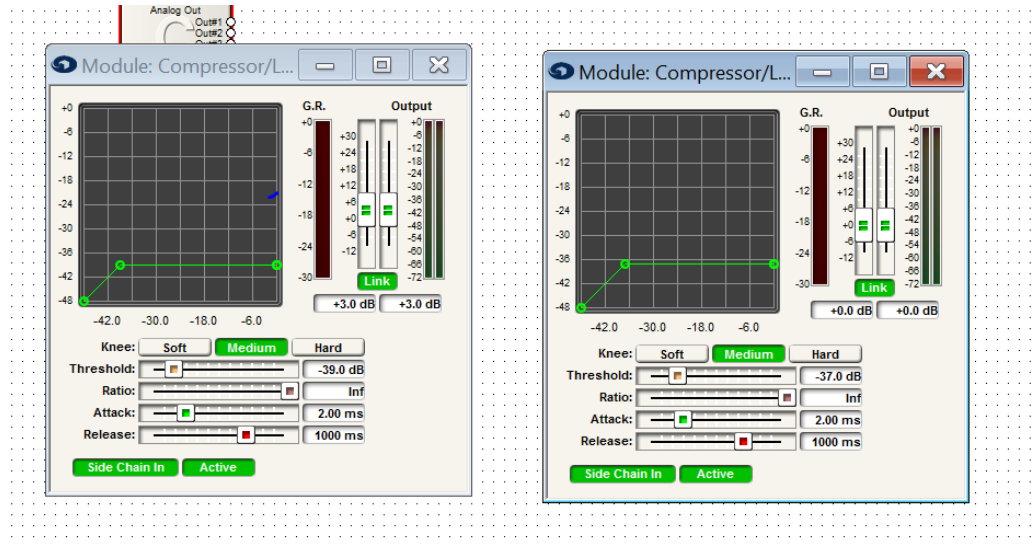
The installation and calibration of the limiter was completed on Wednesday 1
December 2017 at 5.30 AM.

I can confirm that the Gym has 2 limit levels to comply with the conditions above with
the limit levels changing at 6.30 am to ensure that the lower levels are enforced for the
early gym class when the background levels are lower. These levels are controlled by
the internal timeclock and the RMS Limiters

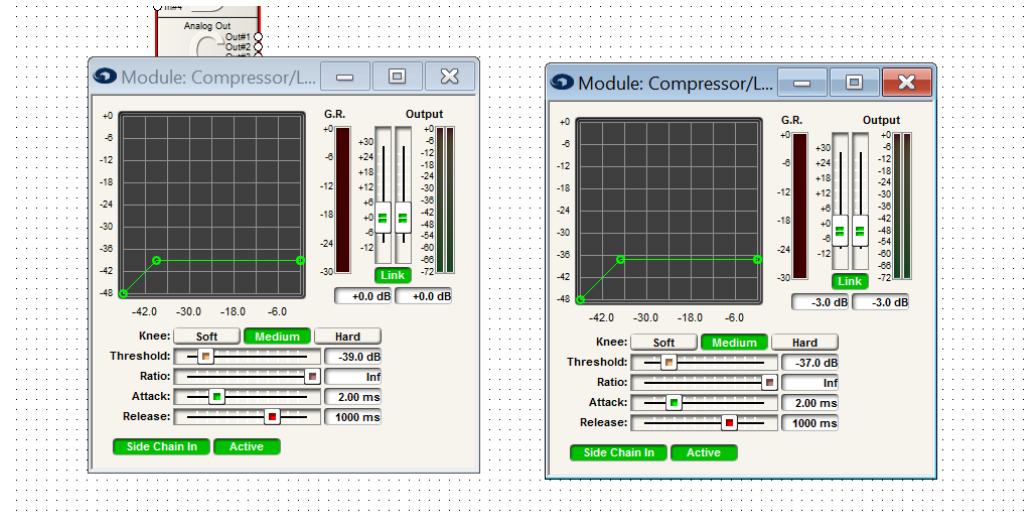
We found that the level of activity on the street increased dramatically from 6 am onward and as such we deemed the limiter settings could be relaxed while remaining compliant.

The limiting is controlled by a Symetrix digital DSP with no limiting controls accessible to the staff at the gym. The limiter settings are as documented below

Limiter setting post 6.30 am



Limiter settings pre 6.30 am



Additional controls have been installed on the powered speaker used as the main speaker system with hardware installed to remove access to additional gain controls after the limiter as shown below



Regards

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E&OE.