

APS products now also "made in Germany" with practical upgrades and improvements for our customers

The **APS Long-stroke Vibration Exciters** have proved their worth for decades due to their rugged design. In 2009 they underwent another stage of **cautious further development**.

To the air-bearing exciters of types APS113-AB, APS 129 and APS 500, new air bearings were introduced which contributed to an improved and low-noise guidance of the armature and in particular drastically reduced compressed air consumption by the air bearings. Furthermore all APS air-bearing vibration exciters will be supplied with an **air-pressure switch** and a **connection terminal** even in their basic configuration. The integrated air-pressure switch can be used for an **emergency shut-down of the shaker** in case of a breakdown of the compressed air pressure. This can be accomplished easily and elegantly by using the latest APS power amplifiers of types APS125 and APS145. The connection terminal is equipped with a SPEAKON® connector and so enables the vibration exciter and the amplifier to be connected fast and safely. The new cables not only transmit the amplified driving signal to the vibration exciter, but also the shut-down signal of the air pressure switch back to the amplifier. In a case of emergency shut-down, the amplifier is set to a state of INTERLOCK which is indicated on the front panel. In the INTERLOCK state the input signal of the amplifier is switched off and the movement of the vibration exciter is decelerated. Once the appropriate air pressure has been restored, the amplifier can be re-set to normal operation by a RESET of the gain controller.

Another **new safety feature** implemented in all combinations of APS vibration exciters and APS power amplifiers is a **current limiter** that is dedicated to the specific shaker, i. e. when supplied the combination of amplifier and vibration exciter is set such that the maximum output current of the amplifier will be limited automatically to the maximum current value allowed for the vibration exciter. When the current limiter is tripped, the amplifier will be set to the INTERLOCK state, thus avoiding any damage to the vibration exciter due to inadvertently exceeding the maximum current value.

Moreover, displacement limiter switches and temperature switches are available as optional extras for all APS long-stroke vibration exciters. They can be integrated instead of, or in parallel to the pressure switch, thus allowing the customer to decide which safety functions are necessary and reasonable for his application.

The current range of models comprises the air-bearing shakers types APS113-AB, APS 129 and APS 500 as well as the roller-bearing models APS 113 and APS 400.

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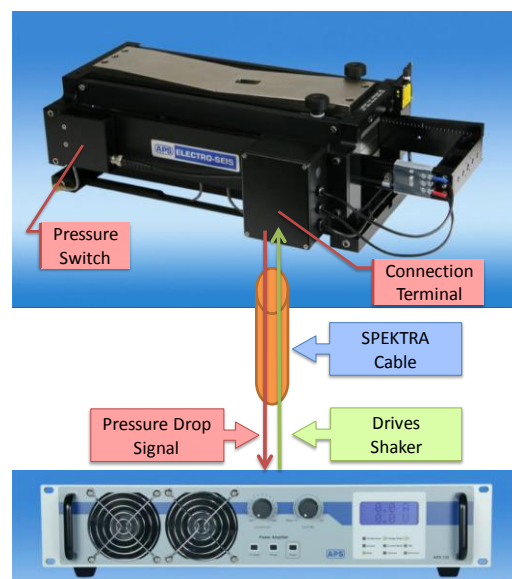


Fig. 1 Amplifier cuts drive signal, if pressure drop is detected