

## ASI/ASC Function

digital • piezo • control

### Concept

ASI and ASC are new functionalities of piezoelectric systems offered by **piezosystem jena** for automatic sensor identification, and the ability to interchange single parts of a system (actuator or electronic without new calibration procedure). That means, these systems can remain on location and in the field without any time or money being spent for additional shipping.

#### **\*ASI Function: Automatic Sensor Identification**

The ASI function allows you to exchange the same type of actuator and use it with the same amplifier. Actuators for an ASI compatible amplifier are equipped with an external preamplifier. New calibration is no longer necessary (valid only for standard calibration)

#### **\*ASC Function: Automatic System Calibration**

In addition to the ASI function ASC provides even more functionality for our customers. The integrated circuit built into a closed loop actuator also contains the parameters for its calibration and other information such as:

motion ▪ name ▪ axis ▪ serial number ▪ PID-control ▪ filter setting

Thus the electronics can identify not only the actuator, but also its calibration data. The actuator can be used with a different type of electronic, without need to be recalibrated. The new system works immediately, and at its peak performance.

Another significant advantage is the full function generator setup. The full function generator setup contains standard values for amplitude, offset, frequency and so on. All of this information is stored inside an ID chip that is located on the actuator's connector. The setup is immediately active again after switching on the electronic.

### Advantages

- Faster replacement of either the actuator or the amplifier in case configuration changing or modification
- Actuators are interchangeable
- Lower sensitivity against environmental interferences due to signal pre-amplification (lower electrical noise)
- Free choice of cable length up to 25 meters
- Cable length can be modified even after calibration



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