



## **ASI - Automatic Sensor Identification**

**piezosystem jena** GmbH now offers plug and play closed loop systems with external measurement electronics and the special unique ASI-Function.

New Electronics are plug and play with any sensor type – if you decide to change from strain gage to capacitive or LVDT sensor later there is no need to change electronics! Because of ASI the electronics is able to identify the type of sensor inside the closed loop system. Is their a piezोजना d-Drive<sup>®</sup> piezo controller existing in the Laboratory every new stage with external measurement system can be used without any additional calibration or new settings. All relevant data like actuator-name, serial-number, calibration, PID-settings, filter settings, slew rate and more are stored in the connector outside of the controller.

### **New “Smart” connectors send data to our electronics**

On powering up our electronics first “talk” to the stages that are connected and download all the parameters necessary for optimizing the closed loop control.

- For the new NV40/1CL (E-101-73/-74) the actuators now have an “E” in their article number (“external” measurement system). The connectors are LEMO for the voltage and ODU for the sensor.
- For the digital system d-Drive the actuators have a “D” in their article number (like “D-Sub connector”). The connector is a D-Sub connector.

#### *Advantages:*

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

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