

## PIRest Drive Electronics

Control of up to 6 PIRest Active Shims



### E-135

- Easy readjustment of machines at inaccessible locations
- Control of up to 6 PIRest active shims
- Independent adaptation of operating parameters to the ambient conditions
- ID chip detection for automatic configuration of operating parameters
- Interfaces: TCP/IP, USB

### Long-term stable positioning with PIRest active shims

The PIRest drive electronics are only necessary during the adjustment process of the PIRest compensating actuators. Once displaced, actuators with PIRest technology hold their position stable without permanent control voltage. Nanometer precision, maintenance-friendly and inexpensive adjustments are possible even at inaccessible locations. Up to 6 actuators can be connected and adjusted one after each other.

### High user-friendliness due to automatic configuration

Important operating parameters are stored on the mechanic's ID chip and are read out automatically when the electronics are switched on. The operating parameters are adapted to the ambient conditions independently during the adjusting procedure.

### Easy integration and handling

All PIRest active shims are equipped with a Sub-D connector. The cable for connecting to the drive electronics is available in several variants and must therefore be ordered separately. A PC controls the drive electronics via an Ethernet or USB interface. Software support is included in the scope of delivery.

### Application fields

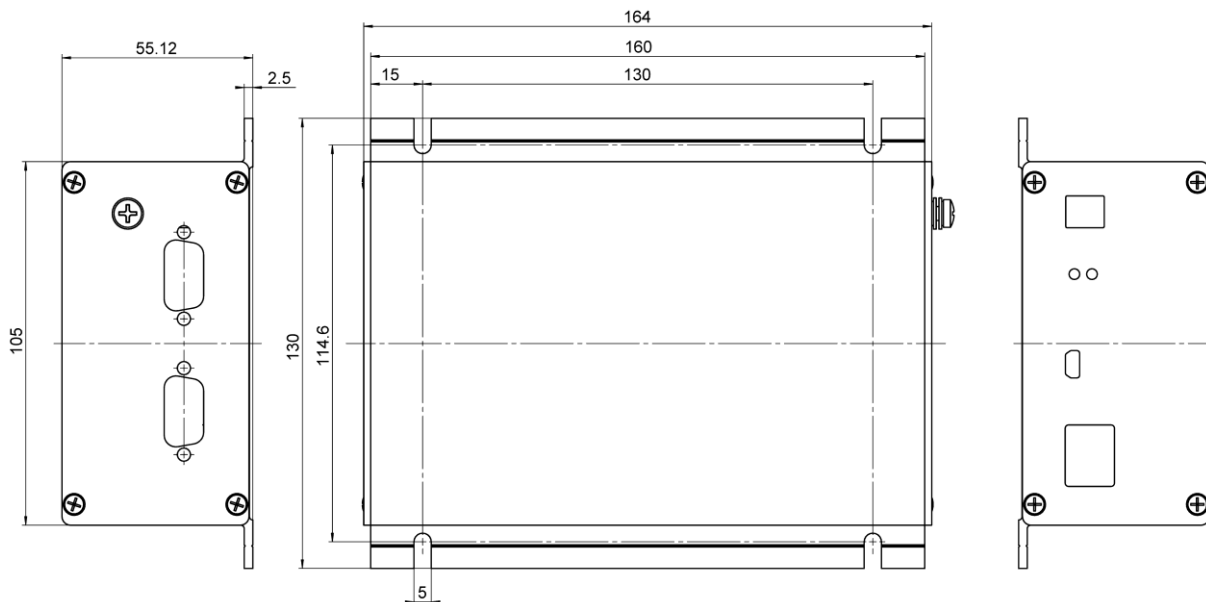
- Set-and-forget applications
- Adaptive mechanics
- Drift compensation
- Adjustment of optical components
- Precision mechanics
- Static precision positioning
- Metrology and interferometry

## Specifications

E-135.601M	
Function	Drive electronics for PIRest active shims
Channels	6; individual control one after another
Output signal	
Output voltage	-100 to 125 V
Max. output current	500 mA
Current limitation	Short-circuit proof
Interfaces	
Actuator connection	HD D-sub 15 (f) Suitable connecting cables*: E-815.AKx00
Communication	TCP/IP, USB
Separate protective earth connector	Yes
Display and indicators	LEDs for Power, Error
Operation	
Command set	PI General Command Set (GCS)
User software	PIMikroMove
Application programming interfaces	API for C / C++ / C# / VB.NET / MATLAB / Python, drivers for NI LabVIEW
Supported functions	ID chip detection, temperature evaluation
Miscellaneous	
Operating temperature range	5 °C to 40 °C
Operating Voltage	24 V DC (external power adapter in the scope of delivery)
Max. power consumption	17 W
Mass	0.7 kg

\* Connecting cable must be ordered separately.  
Ask about customized versions.

## Drawings / Images



*E-135.601M: dimensions in mm*

## Ordering Information

### **E-135.601M**

PIRest drive electronics for up to 6 actuators, HD D-sub 15 sockets, TCP/IP and USB interface

### **Accessories (please order separately)**

#### **E-815.AK100**

PIRest adapter cable, 1 channel, Sub-D 9 (f) to HD Sub-D 15 (m), 0.5 m

#### **E-815.AK200**

PIRest adapter cable, 2 channels, 2 × HD Sub-D 15 (f) to HD Sub-D 15 (m), 0.5 m

#### **E-815.AK300**

PIRest adapter cable, 3 channels, 3 × HD Sub-D 15 (f) to HD Sub-D 15 (m), 0.5 m

#### **E-815.AK600**

PIRest adapter cable set, 6 channels, consisting of 2 × E-815.AK300 (channels 1 to 3 and channels 4 to 6)