

## SCK-10

- two orthogonal axes
- high accuracy, temperature compensated
- high resistance to vibrations
- precision internal accelerometer

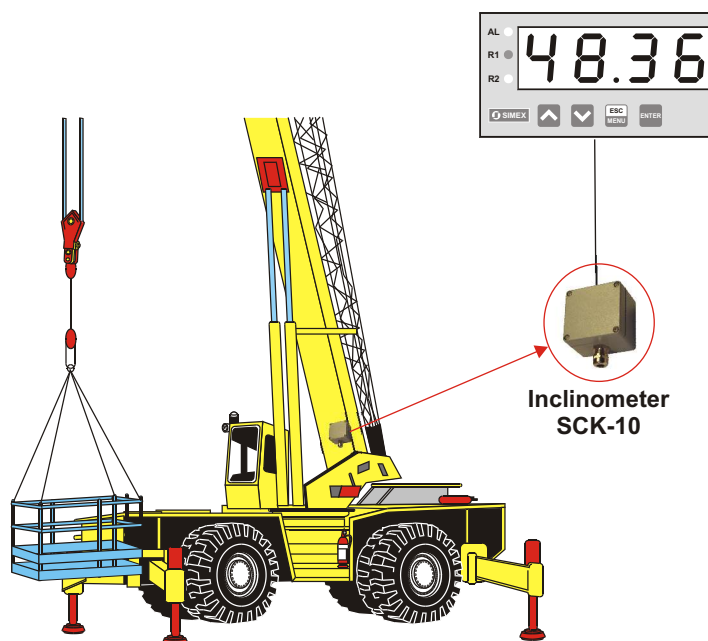


Build in precision accelerometer allows to measure angles (in two axes) in relation to earth with high accuracy. Unit is equipped with software offset registers, which enable setting of relative zero position. This feature eliminates assembly errors, and allows user to measure difference between independent positions. Inclinometer measures angles in two orthogonal axes. Embedded temperature sensor measures ambient temperature of accelerometer, which allows to compensate its flow to angle measurement accuracy. Additionally temperature can be read as third measurement channel.

Due to its tight aluminium housing, unit has high resistance to environmental conditions and mechanical damages.

- two measurement channels,
- build-in temperature sensor,
- resistance for mechanical damages,
- aluminium housing.

### Typical applications



Inclinometer  
SCK-10

### Applications

Possible application fields:

- industry and farming
- position control equipment
- measurement systems of lifts etc.

### Ordering

SCK-10

### Technical data

**Supply:** 10 - 36V DC

**Current consumption:** 10 mA / 24VDC

**Measurement channels (axes):** 2

**Measurement range:**  $\pm 70$  deg. in relation to earth

**Measurement unit:** any (factory scaled to degrees)

**Measurement resolution:** from 0,001 to 1, user configured

**Measurement accuracy:**  $\pm 30$  deg. (better than 0,2%; max. error 0,05 deg. @25°C)  
 $\pm 70$  deg. (better than 0,5%; max. error 0,2 deg. @25°C)

**Nonlinearity:**  $\pm 0,1\%$

**Compensation range:**  $-40^{\circ}\text{C} \div +85^{\circ}\text{C}$

**Vibration frequency:** higher than 10Hz

**Operation temperature:** recommended  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$   
 max.  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

**Communication interface:** RS-485, Modbus RTU

**Protection level:** IP 67

**Housing material:** aluminium

**Dimensions:** 79 x 74 x 58 mm

**Mass:** 350 g