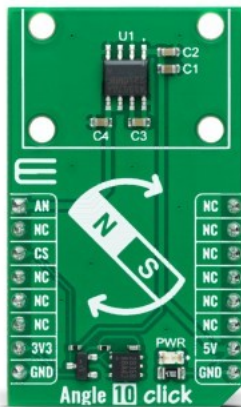


## Angle 10 Click



PID: MIKROE-5387

**Angle 10 Click** is a compact add-on board that detects the absolute angular position of a permanent magnet. This board features the [AS5070A](#), a high-resolution angular position sensor with an analog output for precise absolute angle measurement from [ams AG](#). Based on a Hall sensor technology, the AS5070A measures the orthogonal component of the flux density over a full-turn rotation and compensates for external stray magnetic fields with a robust architecture based on a 14-bit sensor array and analog front-end. Only a simple two-pole magnet rotating over the center of the AS5070A is required to measure the angle, providing an instant indication of the magnet's angular position. This Click board™ is suitable for contactless potentiometers, knobs, and other angular position measurement solutions.

Angle 10 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	Magnetic
Applications	Can be used for contactless potentiometers, knobs, and other angular position measurement solutions
On-board modules	AS5070A - Hall-based rotary magnetic position sensor using a CMOS technology from ams AG
Key Features	Contactless angle measurement, highest reliability and durability, high-resolution output signal, magnetic stray field immunity, great flexibility on angular excursion, analog output, and more
Interface	Analog
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[Angle 10 click example on Libstock](#)

[Angle 10 click 2D and 3D files](#)

[AS5070A datasheet](#)

[Angle 10 click schematic](#)

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