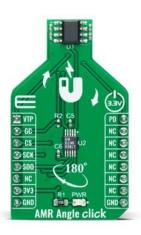


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AMR Angle Click





PID: MIKROE-4561

AMR Angle Click is a compact add-on board containing an anisotropic magnetoresistive measurement solution ideal for either angle or linear position measurements. This board features the ADA4571, an AMR sensor with clean and amplified cosine and sine output signals related to a rotating magnetic field angle from Analog Devices. It can provide better than 0.2° angular accuracy over 180°, and linear accuracy of 2mil (0.002 inches) over a 0.5-inch range, depending on the size of the used magnet. This Click board™ is suitable for absolute position measurement (linear and angle), contactless angular measurement and detection, magnetic angular position sensing, actuator control and positioning, and more.

AMR Angle Click supports the mikroSDK compliant library, which includes functions that simplify software development. This Click board[™] comes as a thoroughly 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.





health and safety management system.



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Specifications

Туре	Magnetic
Applications	Can be used for absolute position measurement (linear and angle), contactless angular measurement and detection, magnetic angular position sensing, actuator control and positioning, and more.
On-board modules	ADA4571 - AMR sensor with clean and amplified cosine and sine output signals related to a rotating magnetic field angle from Analog Devices LTC1407 - 12-bit 3MSPS ADC with two 1.5MSPS simultaneously sampled differential inputs from Analog Devices
Key Features	High precision 180° angle sensor, maximum angular error of 0.5°, magnetoresistive (MR) bridge temperature compensation mode, fault diagnostic, and more.
Interface	SPI
ClickID	No
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

www.mikroe.com

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

AMR Angle click 2D and 3D files

AMR Angle click schematic

ADA4571 datasheet

LTC1407 datasheet

AMR Angle click example on Libstock





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