MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343  Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
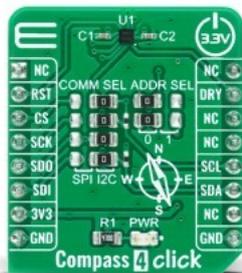www.mikroe.com

# Compass 4 Click

PID: MIKROE-4231

**Compass 4 Click** is a compact add-on board that can measure the three-axis magnetic field that is perfect for implementation in applications such as electric compasses. This board features AK09915, a complete 3-axis magnetic sensor with signal processing from AKM. For obtaining the sensor measurement data of the magnetic field, an I2C or SPI protocol can be used. The main feature of the sensor is the capability to measure magnetic fields within the full-scale range of ±4912 µT, with a sensitivity of 0.15 µT per LSB, resolution at 16bits, and built-in Noise Suppression Filter (NSF), enabling high measurement accuracy for electronic compass applications. This Click board™ is suitable for applications such as an electrical compass, position sensing, general magnetic field measurement, and more.

Compass 4 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.

# Specifications

| Type | Compass,Magnetic |
|---|---|
| Applications | Suitable for applications such as electrical compass, position sensing, general magnetic field measurement and more. |
| On-board modules | Compass 4 Click is based on the AK09915, a complete 3-axis magnetic sensor with signal processing from AKM |
| Key Features | Full scale range of ±4912 µT, sensitivity of 0.15 µT per LSB, resolution at 16bits, Noise Suppression Filter (NSF) |
| Interface | I2C,SPI |
| Compatibility | mikroBUS |
| Click board size | S (28.6 x 25.4 mm) |
| Input Voltage | 3.3V |

## Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

## Downloads

Compass 4 click 2D and 3D files

AK09915 datasheet

Compass 4 click schematic

Compass 4 click example on Libstock

# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for* Position Sensor Development Tools *category:*

*Click to view products by* MikroElektronika *manufacturer:*

Other Similar products are found below :

AS5115 PB  AS5215 AB  SCA830-D07-PCB  STEVAL-MKI043V1  EVB90340-LDC-200-Rev1.0  STEVAL-STWINMAV1  1032  178  DPP401Z000  EVAL-ADXRS453Z-M  EVAL-ADXRS453Z-V  1007214-3  STEVAL-MKI045V1  STEVAL-MKI042V1  STEVAL-MKI037V1  IMX-070  164  EVAL-KIT DMU381ZA-400  OpenIMU300RI EVK  OpenIMU330BI EVK  3595  AS5161-EK-AB  AS5200L-MF_EK_AB  AS5215 DB  AS5600L-SO_EK_AB  AS5600L-WL_EK_AB  AS5715-TS_EK_AB  AS5X47D-TO_EK_ST  TRK-1T02-E  ADIS16265/PCBZ  ADIS16260/PCBZ  ADIS16477-1/PCBZ  ADIS16477-3/PCBZ  EVAL-ADIS2Z  EVAL-ADXRS450Z-S  EVAL-ADXRS453Z  EVAL-ADXRS453Z-S  EVAL-ADXRS646Z  EVAL-ADXRS800Z-EY  EVAL-ADXRS800Z-M  EVAL-ADXRS800Z-RG  EVAL-CN0341-SDPZ  ATBNO055-XPRO  DFR0027  DFR0053  DPP401A000  EVB90365-Rev1.0  EVB90371-GDC-100-Rev1.0  EVB90371-GDC-200-Rev1.0  EVB90371-GDC-300-Rev1.0