

Force 5 Click



PID: MIKROE-4305

Force 5 Click is a compact add-on board that contains a stable and flexible compensated/amplified micro force sensor. This board features the FMAMSDXX025WC2C3, a piezoresistive-based force sensors offering a digital output for reading force over the specified full-scale force span and a temperature range from Honeywell Sensing and Productivity Solutions. The very stable digital output that is directly proportional to the force applied to the mechanically-coupled sphere, enhanced accuracy, and reduced total error band that enhances system performance are just some of the good features that this sensor has. This Click board™ is suitable for industrial applications such as force/grip measuring equipment, load and compression sensing, robotics, and more.

Force 5 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	Force
Applications	Can be used for industrial applications such as force/grip measuring equipment, load and compression sensing, robotics, and more.
On-board modules	Force 5 is based on the FMAMSDXX025WC2C3, a piezoresistive-based force sensor offering a digital output for reading force over the specified full-scale force span and a temperature range from Honeywell Sensing and Productivity Solutions.
Key Features	Low power consumption, stable digital output, enhanced durability and accuracy, reduced total error band, and more.
Interface	I2C
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

[Force 5 click 2D and 3D files](#)

[FMAMSDXX025WC2C3 datasheet](#)

[Force 5 click example on Libstock](#)

[Force 5 click schematic](#)

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