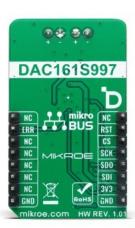MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

4-20mA T 2 Click

PID: MIKROE-5540

4-20mA T 2 Click is a compact add-on board for transmitting an analog output current over an industry-standard 4-20mA current loop. This board features DAC161S997, a low-power 16-bit ΣΔ digital-to-analog converter (DAC) from Texas Instruments. It has a programmable Power-Up condition and loop-error detection/reporting accessible via simple 4-wire SPI for data transfer and configuration of the DAC functions. In addition, it is characterized by low power consumption and the possibility of simple Highway Addressable Remote Transducer (HART) modulator interfacing, allowing the injection of FSK-modulated digital data into the 4-20mA current loop. This Click board™ is suitable for 2-wire 4-20mA current loop transmitters, industrial process control, low-power transmitters, and many more.

4-20mA T 2 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	Current
Applications	Can be used for 2-wire 4-20mA current loop transmitters, industrial process control, low-power transmitters, and more
On-board modules	DAC161S997 - 16-bit DAC for 4-20mA loops from Texas Instruments
Key Features	High resolution, industry-standard current loop, SPI-programmable, low power consumption, Power-Up programmable output current, loop-error detection and reporting, HART modulator interfacing, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[4-20mA T 2 click example on Libstock](#)

[4-20mA T 2 click 2D and 3D files](#)

[DAC161S997 datasheet](#)

[4-20mA T 2 click schematic](#)