

STEMMA capacitive soil moisture sensor (I2C)

Adafruit · MPN 4026 · category: soil-sensor

Canonical record: <https://partsgraph.ai/catalog/parts/adafruit-stemma-soil>

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ELECTRICAL

Supply voltage: **3-5V** · vendor page

Introduces DC current into soil: **No** · vendor page

PERFORMANCE

Moisture reading span: **200 (very dry) to 2000 (very wet)** · vendor page

Temperature accuracy: **+ or - 2 degrees Celsius** · vendor page

Ambient temperature sensing: **Yes** · vendor page

INTERFACE

Onboard microcontroller: **ATSAMD10** · vendor page

Connector: **JST PH 2mm** · vendor page

Interface signals: **power, Ground, I2C SDA and I2C SCL** · vendor page

Soldering required: **No** · vendor page

Seeed Grove cable compatible: **Yes** · vendor page

MECHANICAL

Dimensions: **76.2mm x 14.0mm x 7.0mm** · vendor page

Weight: **4.0 g** · vendor page

Probe count: **one probe** · vendor page

Exposed metal: **No** · vendor page

Cable included: **No** · vendor page

GENERAL

Interface: **I2C** · vendor page

Sensing: **Capacitive** · vendor page

INDICATIVE PRICES

Adafruit: \$7.50 USD · as of 2026-08-22 · <https://www.adafruit.com/product/4026>

Pimoroni: £7.20 GBP · as of 2026-08-22 · <https://shop.pimoroni.com/products/adafruit-stemma-soil-sensor-i2c-capacitive-moisture-sensor>

Prices are indicative and dated, captured only from vendors' machine-stated markup. Availability is never claimed.

SOURCES — THE AUTHORITATIVE DOCUMENTS

Soil sensor product page: <https://www.adafruit.com/product/4026>

Adafruit product page: <https://www.adafruit.com/product/4026>

Pimoroni product page: <https://shop.pimoroni.com/products/adafruit-stemma-soil-sensor-i2c-capacitive-moisture-sensor>

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