



The Yocto-4-20mA-Rx device lets you read via USB the instant value returned by any industrial sensor following the 4-20mA standard, as well as record the measures on its internal flash for later retrieval when connected again by USB. The device can automatically map the current reading to a physical measure by applying a proportional rule. The module features two inputs, to connect two independent sensors.

You can find sensors for all kinds of physical measures using the standard 4-20mA interface. Transmitting the measure using a 4-20mA current loop makes it possible to get a very accurate reading (up to 0.01%), and works even when the sensor is far away from the interface module (several thousands of meters of cable away).

The Yocto-4-20mA-Rx supports 2-wire sensors (powered from the current loop) as well as 3-wire sensors (that require an additional power supply with shared ground) and 4-wire sensors (with an insulated power supply). It can even provide up to 80mA to power 3-wire sensors that do not require too much power. The supply voltage is regulated 23V, insulated from the USB bus but common to both inputs.

Specifications

Product ID	RX420MA1
USB connector	micro-B
Width	20 mm
Length	60 mm
Weight	10 g
Channels	2
Refresh rate	50 Hz
Input impedance	50 Ω
Accuracy	0.01 %
Resolution	0.001 mA
IEC protection class	class III
USB insulation, dielectric strength (1 min.)	1 kV
Normal operating temperature	5...40 °C
Extended operating temperature [‡]	-30...85 °C
RoHS compliance	RoHS III (2011/65/UE+2015/863)
USB Vendor ID	0x24E0
USB Device ID	0x0037
Suggested enclosure	YoctoBox-Long-Thick-Black-Vents
Harmonized tariff code	8542.3190
Made in	Switzerland

[‡] The extended temperature range is defined based on components specifications and has been tested during a limited duration (1h). When using the device in harsh environments for a long period of time, we strongly advise to run extensive tests before going to production.



For more information: www.yoctopuce.com/EN/products/yocto-4-20ma-rx