User Manual Digital Input Mini

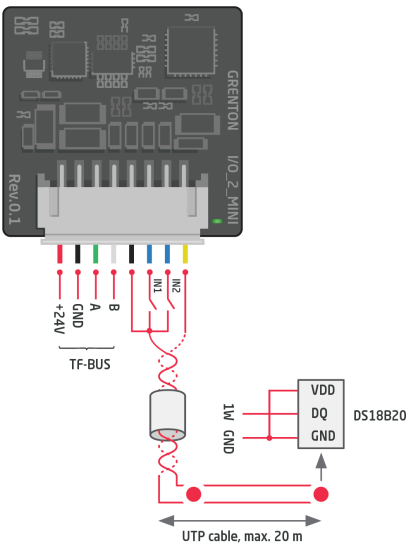
INP-310-T-01

Grenton Digital Input Mini allows you to connect up to 2 digital inputs to the system and supports up to 2 digital 1-Wire temperature sensors. The module is designed for installation in a flush-mounted junction box.

1. Technical Data

Device power supply	$24V_{dc}$
Maximum power consumption	0.1W
Maximum device current	4mA (for $24V_{dc}$)
Weight	12g
Fixing	flush-mounted box
Dimensions (H/W/D)	32/32/9mm
Number of supported 1-Wire temperature sensors	2
Operating temperature range	0 to +45°C

2. Wiring Diagram



V+ (red)	bus power supply
GND (black)	GND
A (green)	bus signal A
B (white)	bus signal B
GND (black)	GND
IN1 (blue)	first digital input
IN2 (blue)	second digital input
1W (yellow)	1-Wire input

- Digital inputs allow connection of any device with a contact output, e.g. a simple switch, motion sensor, smoke sensor or water sensor.
- Up to 2 DS18B20 temperature sensors can be connected to the 1-Wire input.
- The module is powered directly from the Grenton system bus.
- If the module is the last device on the bus, a 120 Ω termination resistor must be connected between wire A and wire B.

3. Device Status

	Off - no power supply
	On continuously for 2s - module startup
	On continuously - module in bootloader mode
	Short flash every 2s - correct module operation
	Short flash every 1s - no address (run CLU Discovery)
	Fast flashing every 100ms - no TF-bus connection
	Two short flashes every 2s - voltage too low
	Short flash - change of module input or output state

- In some hardware versions the green status LED has been replaced with a blue one.

4. Warnings and Cautionary Statements

ATTENTION !

- Before proceeding with the assembly, read the installation schematics and full instructions available at www.grenton.com. Failure to follow the guidelines contained in the instructions and other requirements of due care valid as a result of the nature of the equipment (device) may be dangerous to life / health, damage the device or installation to which it is connected, damage other property or violate other applicable regulations. The manufacturer of the device, Grenton Sp. z o. o. does not bear any responsibility for the damage (property and non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device).
- Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.
- The product is not intended for children and animals.
- If you have technical questions or comments about the device operation, contact Grenton Technical Support.
- Answers to frequently asked questions can be found at: www.support.grenton.com.

DANGER !

- Danger to life caused by electric current!
- The components of the installation (individual devices) are designed to work in a home electrical installation or directly in its vicinity. Incorrect connection or use may cause a fire or electric shock.
- All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or licences.
- When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

5. CE Marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the directives of a new approach appropriate for this equipment. In particular, Grenton Sp. z o. o. declares that the device fulfills the requirements on safety, specified by law, and that it conforms to the national regulations that implement the appropriate directives: The Directive on the electromagnetic compatibility (EMC - 2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).

6. Warranty

Warranty available at www.grenton.com/warranty.

7. Manufacturer Contact Details

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