

# **Datasheet**

## DIO-430-R1 Module

Part No. 0000004

#### About the product



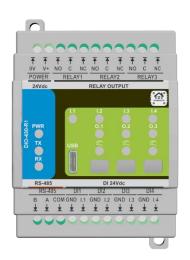
With a variety of onboard hardware resources, it enables automation tasks such as pump and fan control, temperature regulation and monitoring, lighting control, and creation of lighting scenes.

DIO-430-R1 functionality can be expanded with additional extension modules through a wired RS-485 Modbus system.

Furthermore, it supports programming via the Arduino IDE using the USB interface, providing developers with extensive flexibility and customization options.

#### **Electrical Data**

24VDC, 120VDC - 370VDC,
USB-C female (5V DC via USB-C) for programming
typ. 1.85W, max. 3W
RP2350A
4 isolated, surge protected digital sourcing inputs
logic 0: 0 9.2VDC
undefined: 9.2 15.8VDC
logic 1: 15.8 24VDC
3 digital output (relay with optocoupler and
varistor surge protection), dry contact
250VAC 16A at $\cos^{\varphi} = 1$ ,
250VAC 9A at cos <sup>φ</sup> =0.4
30VDC 10A
Half-duplex,
data rate 115,2 kbps,
short-circuit current limited and protected against
excessive power dissipation,
fail-safe for open circuit,
surge protected
USB type-C USB Specification 2.0 compliant,
ESD protected,
Silicon Labs CP2102N USB-to-UART bridge
controller,



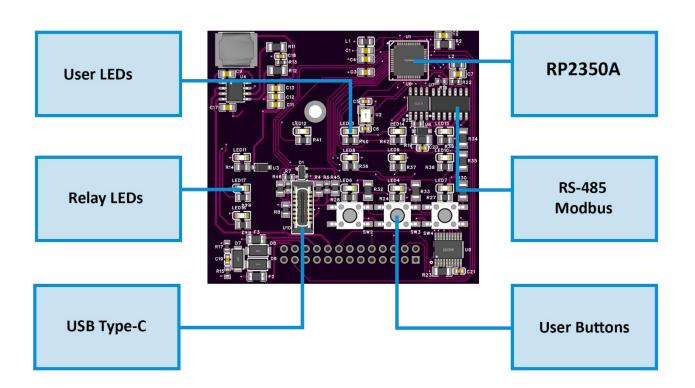
	Virtual COM Port Device Drivers, Works with existing COM port Applications, Supported on
	Windows, Mac, and Linux
Real-time clock	PCF8563
Buzzer	85dB Passive (external drive) Electromagnetic Type
	2.7kHz
Ambient temperature	0 40°C / 32 104°F
Humidity	max. 95% r.H. (non condensing)

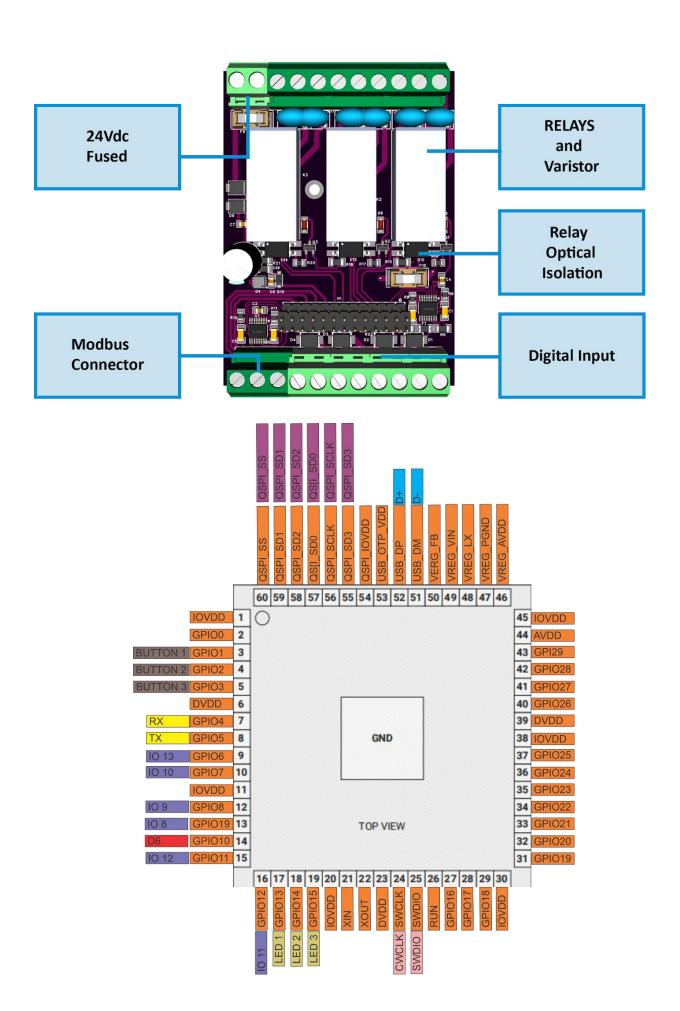
#### Information: \*

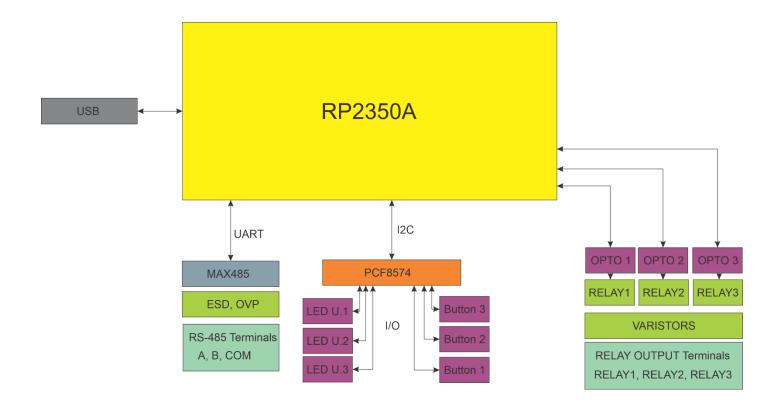
High loads at the digital outputs result in heat development, which can influence the lifetime in the long run. We recommend using coupling relays with loads greater than 5A.

#### **Connections**

Terminals	300V 20A 26-12 AWG 2.5mm2,
	Torque of terminal blocks 0.5 0.6Nm /0.37
	0.44 lbf ft,
	Pitch: 5.08mm(.200")
USB	USB type-C





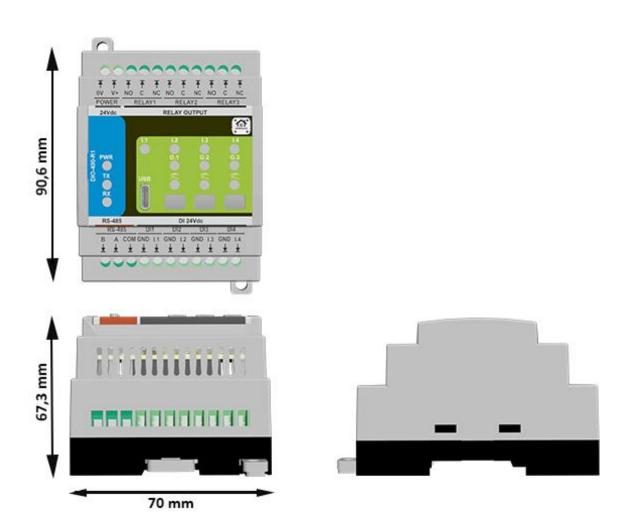


## **Product Characteristics**

Mounting type	DIN rail according to EN50022, 35mm
Colors	Light Gray/Black, Smoke Panel
Material	PC/ABS/V0
Finish	Matte

# **Weight & Dimensions**

Net weight	000g
Total weight	000g
Product dimensions	52.5 x 90 x 59 mm (2.07 x 3.54 x 2.32 in) (LxWxH), 1 division units
Pack size	000x0x0mm (0 x 0 x 0 in) (LxWxH),



## **Certifications & Standards**

Safety rating	IP20
Operation	Type 1 (UL60730-1, CSA E60730-1)
Rated impulse voltage for digital output	2.5kV (UL60730-1, max. Altitude 2000m)
Degree of pollution	2
Certifications	CE, UL60730-1, CSA E60730-1

The DIO-430-R1 enables a variety of connected devices to work with HOMEMASTER technology. See https://www.home-master.eu for more details.

Communication between iPhone, iPad, Apple Watch, HomePod, or Mac and the HomeKit- enabled DIO-430-R1 is secured by ESPHome and Home Assistant technology.

Installation must be carried out by a qualified electrician in accordance with the relevant regulations.

## Published by

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https://www.home-master.eu