NOVABO MODBUSRTU-SQR Squealer 1/2 Controller Owner's Manual

Contents

NOVABO™ measurement and automation

NOVABO MODBUSRTU-SQR Squealer 1/2 Controller

Specifications

- **Product Name:** MODBUS RTU-SQR
- **Communication Protocol:** MODBUS-RTU
- **Transmission Speed**: 9600bps
- **Device Address:** 255
- **Power Supply Voltage:** DC7-24V

Connector Description

- **A-, A+:** MODBUS-RTU signal
- **GND:** Ground
- **IN1, IN2:** Inputs
- **12V:** Power Supply

Communication Description

The ModbusRTU frame consists of the device address, function code, register address, register data, and checksum. The length of the frame is associated with the function code.

Instruction for Safe Use

The device should be used according to its intended purpose. Before installation, please read the device's manual. In the case of installation, servicing, inspection, and repairs in areas with a potentially explosive atmosphere, the regulations and standards applicable in the respective country must be followed.

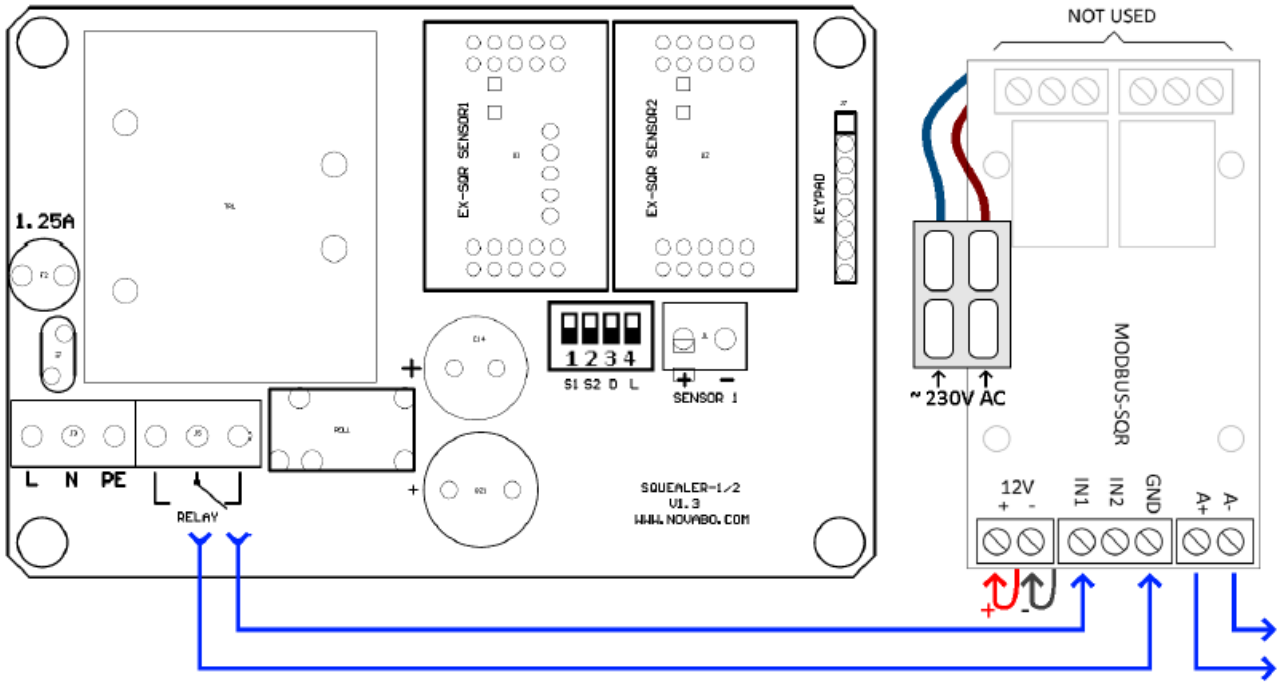
Product Usage Instructions

1. Read the device's manual thoroughly before starting the installation process.
2. Ensure that the power supply voltage is within the range of DC7-24V.
3. Connect the device using the specified connectors: A-, A+, GND, IN1, IN2, and 12V.
4. Follow the communication protocol guidelines for MODBUS-RTU.

5. Verify the device address (255) and transmission speed (9600bps) settings before initiating communication.

MODBUSRTU-SQR – TECHNICAL DOCUMENTATION

A device used to transmit the status of relays from the Squealer-1/2 controller to the BMS monitoring station using the MODBUS-RTU protocol.



Communication parameters

- Transmission speed: 9600bps,
- Device address: 255,
- Power supply voltage: DC7-24V,

Connector description

- A-, A+
- MODBUS
- RTU signal
- GND
- ground
- IN1, IN2
- inputs
- 12V
- power suply

Communication description

The ModbusRTU frame consists of the device address, function code, register address, register data, and checksum. The length of the frame is associated with the function code.

Query about alarm status: FF 02 00 00 00 08 6C 12

Response from the device:
FF 02 01 01 51 A0 – OK (normal status) FF 02 01 00 90 60 – ALARM (alarm status)

Instruction for safe use

The device should be used according to its intended purpose. Before installation, please read the device's manual. In the case of installation, servicing, inspection, and repairs in areas with a potentially explosive atmosphere, the regulations and standards applicable in the respective country must be followed.

- NOVABO
- tel.: +48/58-746-37-73
- www.novabo.com
- novabo@novabo.com

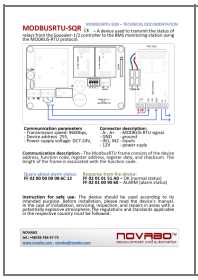
Frequently Asked Questions

Q: How do I troubleshoot communication issues with the MODBUSRTU-SQR?
A: Check the device address, transmission speed, and connector connections. Ensure proper grounding and power supply voltage.

Q: Can the MODBUSRTU-SQR be used in hazardous environments?
A: The device can be used in potentially explosive atmospheres following the relevant regulations and standards.

Q: What is the function of the IN1 and IN2 inputs?
A: IN1 and IN2 are input ports for connecting external devices or sensors to the MODBUSRTU-SQR.

Documents / Resources

	NOVABO MODBUSRTU-SQR Squealer 1/2 Controller [pdf] Owner's Manual MODBUSRTU-SQR Squealer 1 2 Controller, MODBUSRTU-SQR, Squealer 1 2 Controller, 1 2 Controller, Controller

References

- User Manual