

1. Content of package

nConnect® RTU device



Thank you for choosing MJK nConnect® for this installation.

nConnect® is a 2 pump control RTU device.

nConnect® is created for standalone installations or to be working as slave device for the MJK Connect RTU device, and is mounted on DIN rail. To be working as slave device the RS-485 Repeater must be installed alongside with nConnect.

This quick guide is your initial guide for mounting and set-up. For more detailed instructions we recommend the nConnect® users guide and the nConnect® website.

mjk

a xylem brand

nConnect® RTU

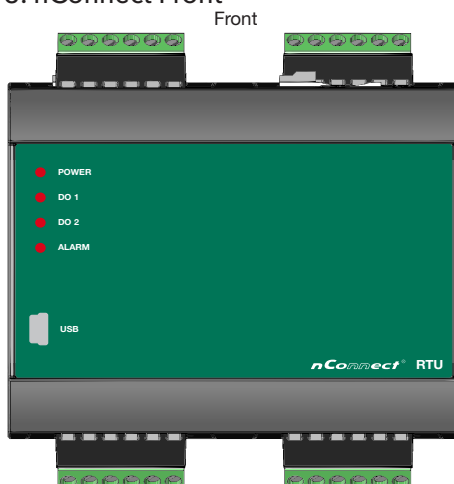
Quick guide

2. nConnect and RS485 on DIN rail



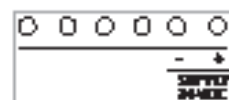
Mount on DIN rail

3. nConnect Front



4. Power Supply

DC Supply:
20-30VDC $\pm 10\%$, 6 VA



5. nConnect Terminals

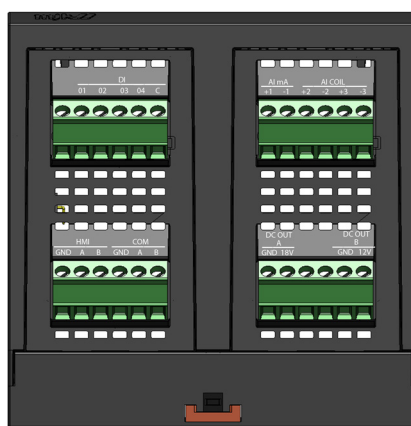
Top Back



Top front

5. nConnect Terminals

Bottom front

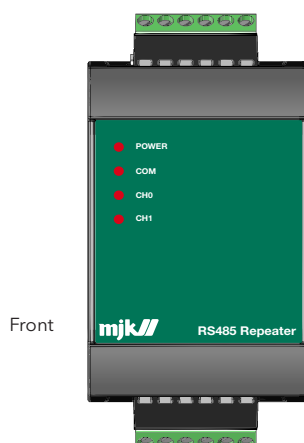


Bottom Back

6. nConnect LED Signals

- Power up:
All LEDs are lit followed by running light -
Once down and once up
- DO1:
Active
- DO2:
Active
- Alarm:
Active alarm, attention needed

7. RS485 Repeater Front

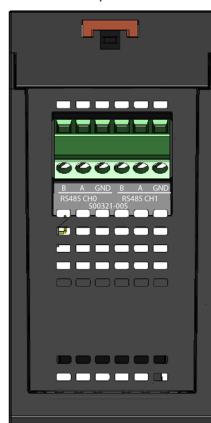


Front

8. RS485 Repeater Terminals

Top Back

Bottom front



Top front

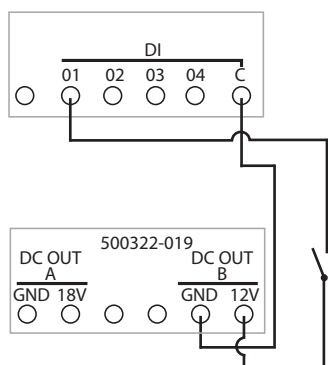


Bottom Back

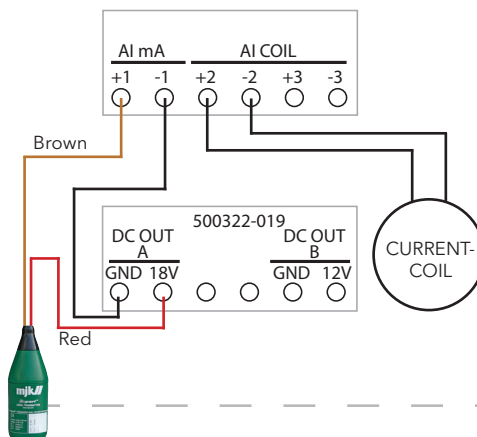
9. RS485 Repeater LED Signals

- Power up:
Power on
- COM:
Transmission active
- CH0:
Transmission active
- CH1:
Outgoing signal (enhanced)

10. Connection example



11. Connection example



mjk

a xylem brand

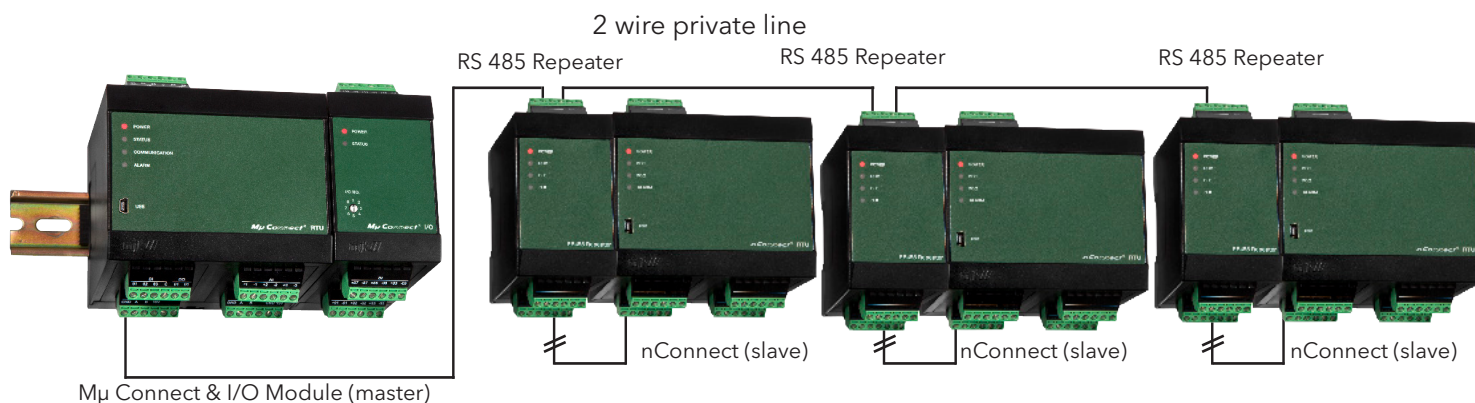


Certificate# 45791

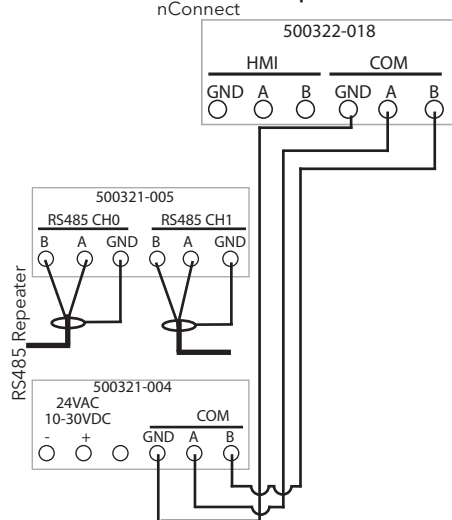
nConnect® RTU

Quick Guide

12. Network example



13. Connection example



14. Specifications

Specifications nConnect*	
Power supply	20-30V DC $\pm 10\%$ nominal 24VDC
Power consumption	6 VA, without modem <3A
Clock	Realtime clock
Memory	Flash memory
Communications	1 pcs RS 485 for communication OPTIONAL WiFi 802.11b/g (2,4 GHz), Max 25Mbps (64/128 bit WEP, WPA, WPA2(AES))
HMI Communication	1 pcs RS-485 for HMI Display w/o power supply
Internal Communication	Modbus® RTU-mode
External Communication	Modbus® RTU-mode or COMLI*
USB Interface	1 pcs. USB 1,1 Type mini B, female
Enclosure	IP 20
Cabinet material	PC (Polycarbonate)
Operating conditions	-20 to 60°C
Weight	0,35 kg

15. Accessories

Order numbers:

205223 nConnect.DC supply RS485 4DI/3DO/1AI/2CI
205226 nConnect DC supply RS485 4G modem 4DI/3DO/1AI/2CI

Accessories:

691095 USB-cable for PC communication
840150 Connect Link™
200162 10/30A transformer
200163 33/100A transformer
205590 Wifi, External Communications module RS485



Download Connect Link for free

<https://mjk.com/download-center?mainCatId=3105&catId=all&lang=english>

16. App Requirements

iPhone



For iPhone find relevant installation specifications in app store

Close app from previous connection before creating a new connection

Android



For Android find relevant installation specifications in google play store

Close app from previous connection before creating a new connection

Specifications nConnect*

Input and output (I/O) RTU Unit	
Digital input	4 pcs. 10 - 30 V DC
Digital output	3 pcs. electromechanical relays (max. 24 V AC / 2 A)
Analog input	1 pcs. galvanically separated, 12 bit resolution, 4-20 mA, precision $\pm 1\%$ of FS
Analog input	2 pcs. for current transformer input, 10 bit resolution, 0-10 or 0-33A, precision $\pm 5\%$
Power supply for AI	18 V DC 30 mA
Power supply for DI	12 V DC 30 mA
CE Approval	EMC Directive 2014/30/EU EN 61000-6-4 2007, EN 61000-6-2 2005 RED directive 2014/53/EU RoHS Directive 2011/65/EU

Liability

MJK Automation ApS are liable according to the common rules of Danish law on product liability, however, the liability is reduced to coverage of our public liability insurance of products. To the extent where nothing else follows in lines of invariable rules of law, we are not liable for loss of profits and working deficits or other indirect losses.

Changes

As our products are developed continuously, we reserve the right to make any alterations without prior notice.

MJK Automation is a Xylem Brand

MJK Automation
Blokken 9
DK-3460 Birkerød
Denmark
Tel +45 45 56 06 56
www.mjk.com