



nConnect

PUMP CONTROL

6.08

General

nConnect® is a simple pump control, based on the well-known Mµ Connect® technology. nConnect® is developed for smaller pump stations in open country, drainage stations, raw water wells, standalone pump stations, and in other places where a simple pump control is required - with or without the need for remote monitoring.

The unit is delivered complete with inputs and outputs for - among other things - level transmitters, current coils for power measurement of pumps, operation and error signals, serial RS 485 for communication via private lines and HMI and communication to Scada via built-in 3G or 4G modem.

nConnect® is configured via the Connect Link™ software and an MJK HMI Display can be connected via serial input.

Optionally, an external Wi-Fi module can be added. This offers an excellent onsite overview of pump operations and easy configuration of start/stop levels as well as reading history and alarms via MJK's pump management smartphone app.



Functions

nConnect® comes with the well-known MJK pump control features, such as:

- Pump control of 1-2 pumps with monitoring via control word
- Input for current coils measuring pump power
- Logical functions
- Possible connection of HMI operating display.

Applications

- Open country pump stations
- Drainage water stations
- Extraction pump stations
- Raw water borings
- Standalone pump stations
- Rain water stations
- Retrofit of existing controls.

NOW WITH 3G OR 4G MODEM...

DATASHEET

EN 6.08 nCONNECT DATASHEET 1812

mjk
a xylem brand

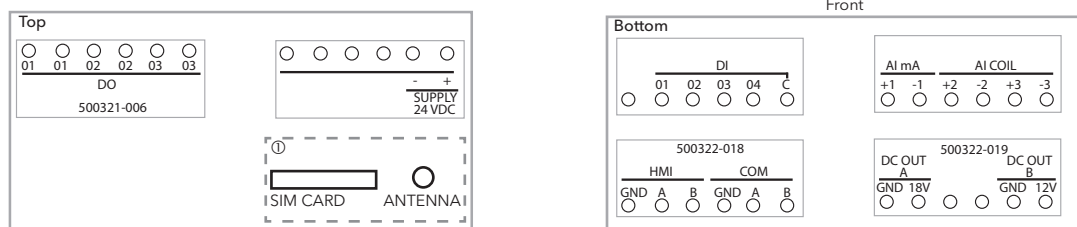
nConnect pump control

Specifications

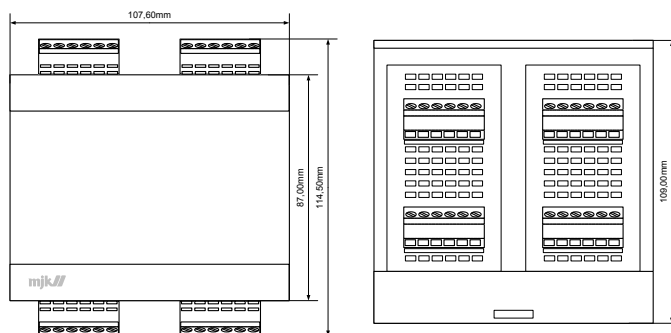
nConnect®		
Power supply	24 V DC nominal (20-30V DC)	
Power consumption	6 VA, without modem < 3 VA	
Clock	Real time clock with build-in lithium battery	
Memory	32MB flash memory, 10 X 36.000 loggings, depending on the selected protocol	
Build-in communication	3G modem bands (MHz): B5 (850)/B8 (900)/B4 (1700)/B2 (1900)/ B1 (2100)	or 4G modem bands (MHz): B20 (800)/B8 (900)/B3 (1800)/B1 (2100)/B7 (2600)
Interface	1 pcs RS-485 for HMI 1 pcs RS 485 for communication 1 pcs USB 1,1 type mini B, female	
Communications protocol	Internal: Modbus® RTU mode External: Modbus® RTU mode, COMLI® or Aqua Com	
Enclosure	IP 20	
Cabinet material	PC (polycarbonate)	
Temperatur range	- 20 ... 60 °C	
Weight	0,35 kg	
CE approvals	EN 61000-6-4:2007, EN 61000-6-2:2005	
In- and output 4DI/3DO/1AI/2AO (current coil input)		
Digital input	4 pcs. 10 - 30 V DC	
Digital output	3 pcs. relays (max. 30 V DC / 24 V AC / 2 A)	
Analog input	1 pcs. galvanic separated, 12 bit solution, 4-20 mA, accuracy ± 1 % of FS	
Current transformer	2 pcs. for current transformer input, 10 bit resolution 0-10 A or 0-33 A, accuracy ±5%	
Power supply for AI	18 V DC 30 mA	
Power supply for DI	12 V DC 30 mA	

Electrical connections

Actual connection layout will differ depending on product variant



Dimensions



nConnect pumpestyring

Operating



Android



iPhone



nConnect® can be operated from different devices:

Smartphone - connected via external Wi-Fi module. The iPhone and Android apps are free and downloadable from the App Store or Android Market. Scan the QR code and download the MJK Connect app.

Connect Link™ - for full setup, configuration and communication between nConnect® and a PC via a USB cable, 3G or 4G modem or Wi-Fi. See data sheet 6.28.

HMI Display - provides graphical access to pump controls, data reading and real-time operation overview via touchscreen. See data sheet 6.31.

Order numbers

nConnect®	
205223	nConnect® DC supply RS485 4DI/3DO/1AI/2CI
205225	nConnect® DC supply RS485 3G modem 4DI/3DO/1AI/2CI
205226	nConnect® DC supply RS485 4G modem 4DI/3DO/1AI/2CI
Accessories	
205204	Power supply, DIN rail, 100-240VAC 24VDC/1.25A
205205	Power supply, DIN rail, 100-240VAC 24VDC/1.75A
205410	HMI display
205507	Cable set for Mμ Connect® for HMI display, RS485, 2,7m.
205590	Wi-Fi, external communications module, RS 485
691075	Communications cable 2x2x0,5mm ² twisted pair + screen per m.
691095	PC cable mini USB/USB
840150	Connect Link configuration software

For antennas, see data sheet 6.26
For HMI display, see data sheet 6.31