Connect

DATA TRANSMITTER

General

Connect® is an advanced combined control, regulator and monitor unit for technical installations such as wastewater treatment plants.

Connect® provides numerous options and can operate as a stand-alone controller or as a subunit (RTU) in a larger SCADA installation.

It is equipped with a CPU and a datalogger, and can be configured as required with many digital and analog in- and outputs.

A large selection of communication modules facilitates transmissions across private as well as public telephone and data networks.

A Connect® unit can operate in network with other MJK Connect® series devices, industrial PLCs and measuring devices for flow, pressure, pH, suspended solids and turbidity.

Connect® is the result of intensive development activities based on many years experience with equipment deliveries to SCADA installations all over the world. Connect® is characterized by high quality, simple and logical usage in clear language, great functionality and prepared for future updates.

Features

- Flexible installation
- Numerous input/output options
- ModBus & COMLI communication
- GPS/GPRS/3G modem (optional)
- Multiple language menu system
- Easy accessible pumpcontrol

Applications

- Sewer and wastewater plants
- Potable water installations
- Pump stations
- Filter rinsing
- Pressure enhancement facilities
- Cooling towers
- Storm flow structures

- Biological control
- Sludge treatment
- Filtering equipment
- Groundwater pump stations
- Buffer bassin
- Energy optimization

DATASHEET
EN 6.05 CONNECT DATASHEET 1508

mjk
a **xylem** brand

I/O Expansion Modules	Depending on the selected I/O module, up to 32 digital inputs, 32 digital outputs, 16 analog inputs and 16 analog outputs can be available. Besides from being displayed they can be configured for alarms, counters, pump control and much more.

Operating	Connection and setup is achieved via a standard USB port and the MJK Connect Link software utility.
	The Connect Display device also provides complete control, using the LCD menu system and keyboard. The screen can display values and text in several selectable languages.
	Remote control can be achieved via optional GSM/GPRS/3G modem, ModBus or COMLI

Specifications Connect Base Unit

Connect® Base Unit	
Power supply	115/230 V AC 50 / 60 Hz, ±10 % or 12 V DC battery
Battery backup	Monitored, built-in battery charger for external lead battery, 2 - 30 Ah
Power consumption	25 VA
Clock	Real-time clock with built-in lithium battery (lifetime approx.10 years@20°C)
Memory storage	32 Mb Flash memory, 10 X 36.000 loggings depending on chosen protocol
Interfaces	1 pc. RS-485 galvanic separated for 1-4 pcs. Connect® 1 pc. RS-485 galvanic separated for 1-4 pcs. MagFlux® and/or SuSix® units 1 pc. communication module for monitoring equipment and other Connect units 1 pc. USB 1,1 type mini B, female
Internal communication	Modbus® RTU-mode
External communication	Modbus® RTU-mode / COMLI® / AquaCom
Enclosure rating	IP 67
Cabinet material	Glas-reinforced polycarbonate
Temperaturområde	- 20 … + 60 °C
Weight	1,5 kg
CE approvals	EN 61000-6-4:2001, EN 61000-6-2:2001

I/O Module 16-8-6-1

Connect® I/O Module 16-8-6-1*	
Digital inputs	16 pcs. DI, 10 - 30 V DC
Digital outputs	8 pcs. DO, electronic relays (max. 48 V AC / DC / 120 mA)
Analog inputs	6 pcs. Galvanically separated, 16 bit resolution, 4-20 mA, accuracy ± 0,25 % of FS[①]
Analog outputs	1 pcs. 4 - 20 mA, galvanic separated
Power supply for I/O	3 pcs. 15 V DC, 200 mA

[①] At operating condition of 0-50°C

Communication Modules

Connect® Communication Modules	
PSTN	Standard Hayes-compatible telephone modem
GSM	Dual band GSM modem
GPRS	Dual band GPRS modem
3G	3G Modem
RS-232 opto	Galvanic isolated RS-232 for data radio or external equipment
RS-485 opto	Galvanic isolated RS-485 with repeater for own lines
RS-485	ModBus

Specifications Display Unit

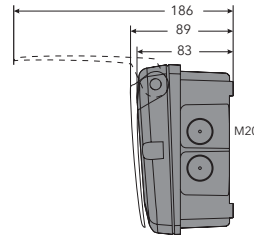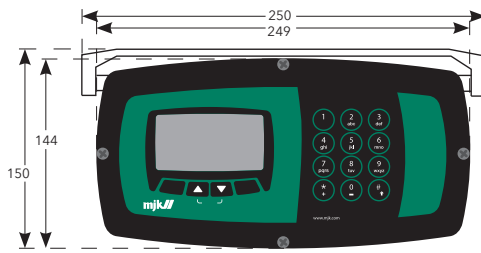| Connect Display	
Display	Background-lit LCD display (64 x 128 pixels) with softkeys
Keyboard	4 softkeys and a keyboard for entries
Display indications	Indication of measurements, work data, functions, configuration and graph
Power supply	From Connect® Base Unit
Clock	Real-time clock with built-in lithium battery (lifetime 10 years@20°C)
Communication	RS-485 Modbus® RTU-mode for communication between 1 - 4 Connect® units
Interface 1	RS-485
Interface 2	USB 1,1 type mini B, female
Interface 3	Communication module
Memory storage	32 Mb Flash memory, 168.000 loggings incl. date, time and value (curve display)
Enclosure rating	IP 67
Cabinet material	Glas-reinforced polycarbonate
Protection face shield	Transparent polycarbonate
Temperatur range	- 20 … 60 °C
Weight	0,5 kg

Electrical Connection
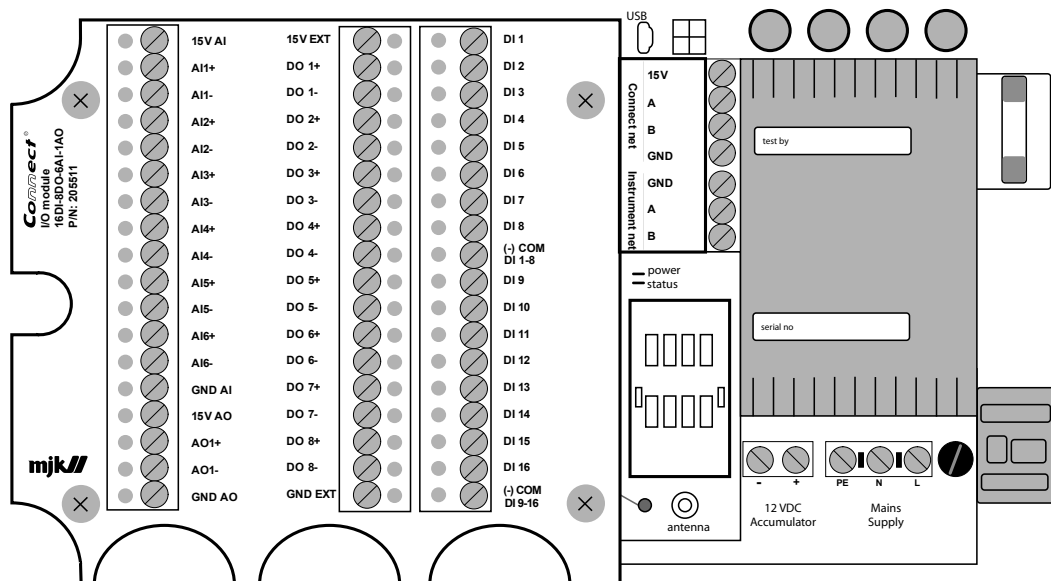
Connect

Dimensions

Slant-mounted face shield   Straight-mounted face shield
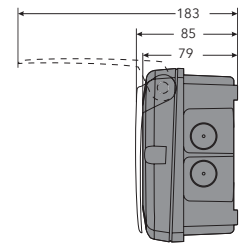
Order numbers

Order numbers Connect®	
205301	Connect® base w/o display I/O modul 16-8-6-1
205321	Connect® base w/ display I/O modul 16-8-6-1
205343	Connect® base w/ display GSM/GPRS I/O modul 16-8-6-1
205344	Connect® base w/ display RS 232 I/O modul 16-8-6-1
205345	Connect® base w/ display RS 485 I/O modul 16-8-6-1
205346	Connect® base w/ display MODBUS® I/O modul 16-8-6-1
205501	Connect® base w/o I/O modul, 230/115VAC
205505	Connect® display unit
Order numbers Connect® Communication Modules	
205543	GSM/GPRS modem Quad band module
205544	RS 232 galvanic insulated module
205541	PSTN modem
205545	RS 485 galvanic insulated repeater module
205546	Modbus and RS 485 communications module
205547	Profibus DP communication module
Order numbers Connect® Accessories	
205511	Connect® I/O modul 16-8-6-1
207936	Panel Mounting Bracket for wide Cabinet
200115	Field mounting kit with rainroof/sun shield
691095	PC Mini USB/USB Cable
840150	Connect Link
205410	Mµ Connect HMI Colour/Touch 7" Display
205506	Cable for Connect to HMI display 2,7 meters