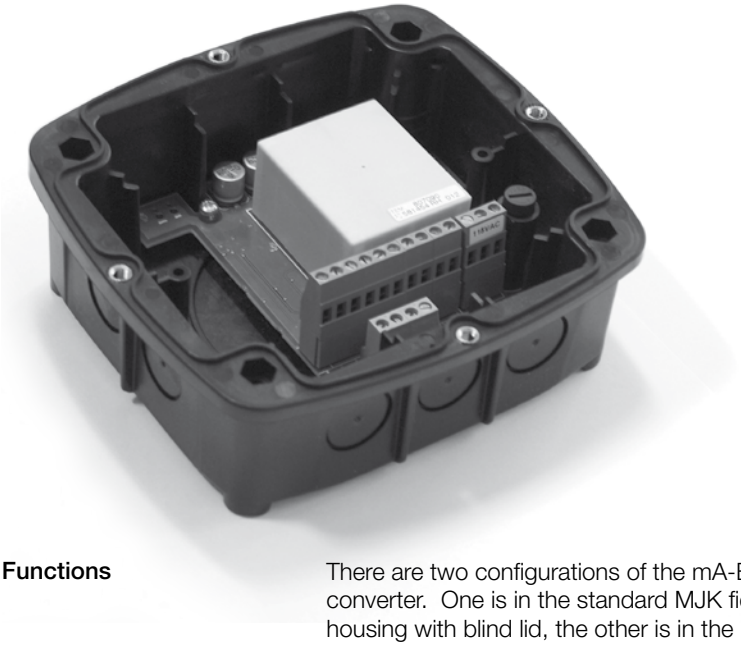
mA-Bus Converter™



The MJK mA-Bus Converter™ is used when a measured value from a transmitter with analog mA signal is to be shown on an MJK display. The mA-Bus Converter™ translates any mA signal to Modbus® and can be used together with the MJK transmitter series for flow, dissolved oxygen, turbidity etc.

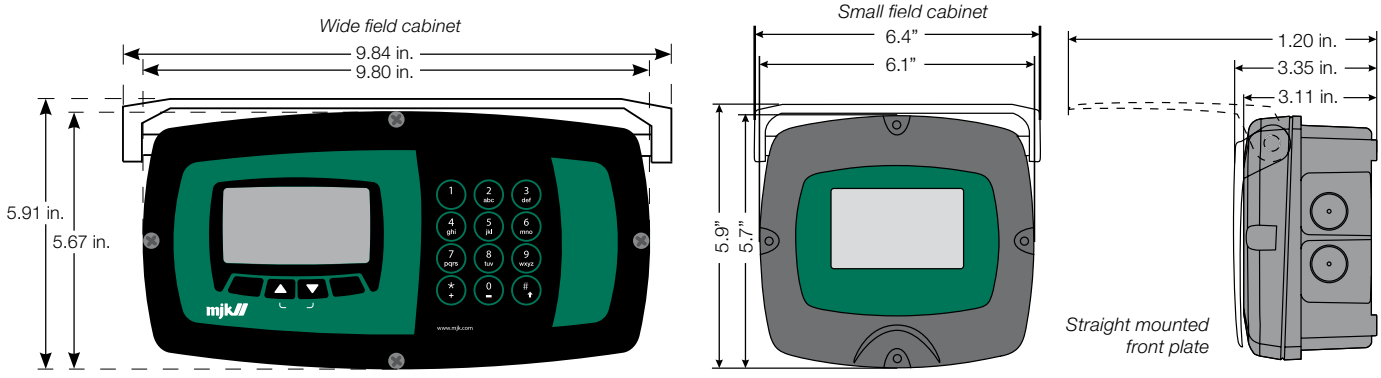
Functions

There are two configurations of the mA-Bus converter. One is in the standard MJK field housing with blind lid, the other is in the MJK wide field housing with a display. The later configuration allows the converter from other MJK transmitters to be housed together with the mA-Bus converter.
With the mA-Bus Converter™ the measured values are converted into Modbus values and displayed as engineering units. The large built-in data logger of the display unit offers 160,000 time-stamped entries. A trend curve of the loged data for the overview by the local operator is easily retrieved and shown in the display simply by pushing one button on the unit. The logged values can then be transferred as csv files to a PC.

Applications

- The mA-Bus Converter™ is used for well water supply systems where the pipe system pressure is shown on the MagFlux® display together with the flow.
- For booster stations on the water supply system, where a pressure transmitter measures and controls the speed of the pumps and the pressure is shown together with the flow and volume of the water flow. Add the pump's power consumption if needed and a complete system data viewing and collection is possible.
- Another example is to measure dissolved oxygen in aeration basins and add a Redox potential (ORP) measurement from a transmitter with mA output for side by side display and data logging.

Mechanical dimensions



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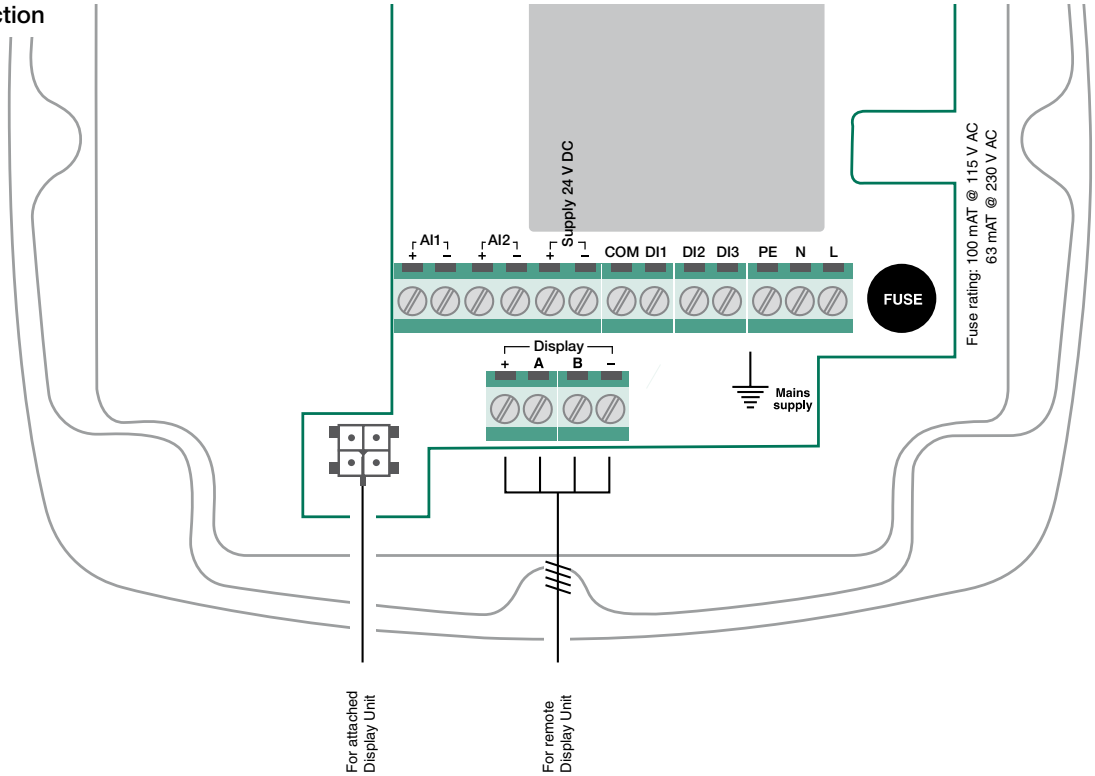
Data Sheet

Specifications

mA-Bus Converter™	
Inputs (I/O's - 3DI / 2AI)	
Analog inputs	2 pcs. AI galvanic separated, 4 - 20 mA
Accuracy	Better than ± 0.25 % of reading
Digital inputs	3 pcs. DI, 10 - 30 V DC
Power supply for I/O	1 pcs. 24 V DC, 200 mA
Communication	Modbus® RTU-mode, Settings, 9600 baud, 2-wire RS 485, slave
Interfaces	1 pcs. RS-485 galvanic separated for MagFlux® / SuSix® / Oxix® or Display unit
Power supply	115/230 V AC 50 / 60 Hz, ±10 % or 24 V AC, 50 / 60 Hz ± 10 %
Power consumption	Max. 10 W
Cabinet material	Glass-reinforced polycarbonate
Enclosure rating	IP 67 / Nema 4x
Temperature range	- 20 … 60 °C / -4 - 140 °F
Weight	1 kg / 2.3 lbs
CE approvals	EN 61000-6-4:2001, EN 61000-6-2:2001

Elelectrical connection



Order Numbers

mA-Bus Converter™	
295910	mA-Bus Converter™, small Field cabinet - (I/O- 2AI / 3DI)
295911	mA-Bus Converter™, wide field cabinet with Display - (I/O- 2AI / 3DI)
295912	mA-Bus converter™, small field cabinet with Display- (I/O- 2AI / 3DI)

Accessories	
205505	Display unit for mA-Bus, wide cabinet
207940	Display unit for mA-Bus, small cabinet

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