

Version of 05/17/2022



Communication Interfaces







Universal power supply

Hot-swappable ModBus plug in and out RTU

Mod BUS







JM CONCEPT

Presentation

JM Concept has developed an interfacing system to decentralize the analog inputs and outputs and to send the data back via fieldbus.

The principle is based on JM Concept's analog signal processing and isolation technology.

The system is fully modular and scalable. The inputs can be process inputs as well as electrical quantities, temperature (PT100, Thermocouple with CSF, outoutput of other sensors), or even digital inputs. There are no limitations.

The unit is hot pluggable and any type of module can be added at any time, without limitation.

All measurements are transferred to a concentrator. There is a concentrator model adapted to each type of fieldbus. If the PLC evolves and the fieldbus is different, it is only necessary to change the concentrator, all the acquisition, with its isolation remains identical.

Range

	Communication				
	Modbus TCP	Profinet	Ethernet IP	Profibus	Modbus RTU
MIPLINE	1				
MPNLINE		1			
EIPLINE			1		
MPBLINE				✓	
MRSLINE					1



MPBLINE.

EIPLINE MPNLINE MIPLINE

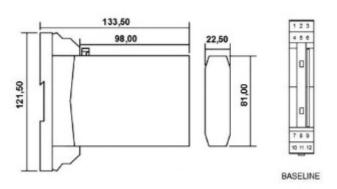
MRSLINE



www.jmconcept.com

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Dimensions



Dimensions : width : 22,5 mm - Height : 81 mm - Depth : 98 mm

(i) BASELINE boards are to be ordered separately 22,5 mm Case : Reference BL01ALV For multi-transmitter boards, please consult us.

Factory Settings

Modbus parameters		Communication speed	Synchronization		Delay at the start	
		38400 bauds	00 bauds Manual		0 min 0 sec	
Bus parameters		Converting scenario values		On off-bus ground		
		in full		The contact is closed		
				Scenarios in writing maintain their value		
		Scenario 1		Scenario 2		
Scenarios	Slave	number 1	01	Slave numb	er	101
	Ope	ration Reading	g 4 floats	Operation		Writing 2 floats
	Re	gister 60	000	Register		6002

For MIPLINE and EIPLINE :

Ethernet parameters	IP address	Mask	Gateway	DHCP	BootP
	192.168.0.1	255.255.255.0	192.168.0.254	Desactivated	Desactivated



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Characteristics

Communication	
Modbus TCP	MIPLINE
Profinet	MPNLINE
Ethernet IP	EIPLINE
Profibus	MPBLINE
Modbus RTU	MRSLINE
Isolation	
Supply / RS485-USB-digital output- connector (RJ45 or Sub-D9 or 6 points connector) on the front	4200Vrms, 50Hz, 1mn
USB / RS485 / digital output / connector (RJ45 or Sub-D9 or 6 points connector) on the front	2500Vrms, 50Hz, 1mn
Auxiliary source	
Voltage supply	20-240Vdc or 90-230Vac 50/60Hz
General characteristics	
Maximum of consumption	MPILINE, MPNLINE, EIPLINE : <7VA MPNLINE, MRSLINE : <6VA
Operating temperature	-10°C +60°C
Storage temperature	-25°C +80°C
Protection factor	IP20 Black self-extinguishing polyamide housing V0



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Functions

Display functions	
LED indicators	1 green LED
Programming	Programming via USB with IXLINE software
Input	
Inputs display	The IXLINE application allows to visualize the reading and writing values of the scenarios
Smart functions	
Scenarios	Allows you to set up read and write requests between the concentrator and the input/output modules
Outputs	
Visualization of the outputs	The IXLINE application allows to visualize the reading and writing values of the scenarios
Links and communication	
RS485 MODBUS RTU	 RS485 MODBUS RTU bidirectional digital link allowing to : recover the measurements and transmit them in digital format configure and control the device Programmable delay for starting the serial communication link RS485 Modbus RTU Choice of transmission speed (from 1200 bauds to 115200 bauds)
Ethernet	MIPLINE, MPNLINE, EIPLINE Bi-directional link via RJ45 port allowing to read or write PLC register values. The LINE acts as a concentrator between the Ethernet network and the Modbus RTU network. A PLC on the Ethernet network can communicate with JM devices located on the same RS485 bus as the LINE.
	MRSLINE, MPBLINE
Serial port	Bi-directional link via the serial port allowing to read or write the values of the PLC registers. The LINE acts as a concentrator between the PLC's serial network and the Modbus RTU network. A PLC can communicate with JM devices located on the same RS485 bus as the LINE.
Digital bus	Access to the digital bus via the USB socket and the IXLINE software (when transmitters are used on the interface boards)
USB front	USB front panel to connect directly to the USB port of a PC for programming via the IXLINE software



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Wiring

EIPLINE

	POWER SUPPLY	No polarity 2 3 20/240 VDC 80/256 VAC 50 / 60Hz
OUT FRONT FACE		RS485 MODBUS RTU A B 1 4
Made in France CE	ਰੱੱਠ	OUT -+- 7 10

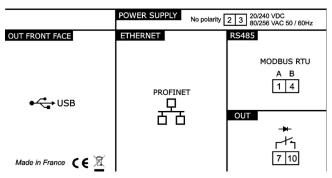
MIPLINE

	POWER SUPPLY No polarity	2 3 20/240 VDC 80/256 VAC 50 / 60Hz
OUT FRONT FACE	ETHERNET	RS485
●		MODBUS RTU A B 1 4
Made in France 🕻 🗲 🖄		out ┌┼┑ 7 10

MRSLINE

	POWER SUPPLY	No polarity 2 3 20/240 VDC 80/256 VAC 50 / 60Hz
OUT FRONT FACE	CONNECTOR	RS485
•	TxN 22 TxP 21 20 19 18 17	MODBUS RTU A B 1 4 OUT -→- - - - - - - - - - - - - - - - - -

MPNLINE



MPBLINE

OUT FRONT FACE D-SUB 9 RS485 MODBUS PROFIBUS DP 1 4	
	RTU
•<	
Made in France CEX	1

