BAS920COMM

BA SYSTEMS
BUILDING AUTOMATION SYSTEMS

Datasheet

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BAS920COMM is a communication module applicable for BAS920 expansion.

BAS920COMM includes
- 1 x M-Bus port
- 1 x RS232 to M-Bus converter port
- 1 x combined RS485/RS232 channel

The M-Bus is a master interface with support for up to 16 M-Bus slave units.

The RS232 to M-Bus converter port can be used for M-Bus unit configuration, when connected to a PC.

The combined RS485/RS232 channel may send data on both interfaces simultaneously, but can only receive data on one interface.

RS485 can be used for ModBus, Genibus, DNIP and other BAS RS485 based protocols. RS485/RS232 may be used for Kamstrup meter communication or other meter units using KMP protocols. It will also be applicable for other systems using RS485/RS232 signalling, however protokol adaptions may be required.

M-Bus and RS485 interface are galvanically isolated from the BAS920 system.
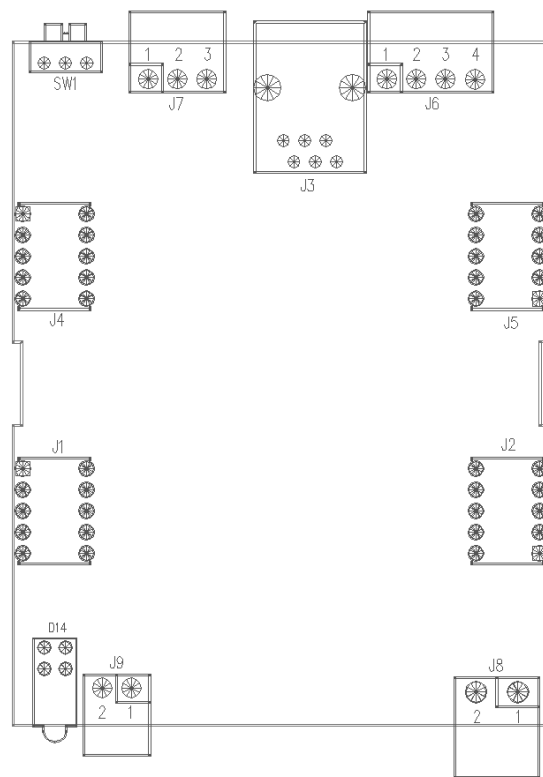
Notes:

J4, J1 = Expansion bus in

J5, J2 = Expansion bus out

SW1, RS485 Bus termination
T.OFF = Termination off
T.On = Termination on

J3/232MB = RS232 to M-Bus converter port

J7 = RS485 port

J6 = RS232 port

J9 = M-Bus port

J8 = 24VAC power for M-Bus

D14 = Status diodes

J3 / Pin no.	J3 / Signal
1	5V
2	5V
3	TXD
4	RXD
5	GND
6	GND

J7 / Pin no.	J7 / Signal
1	GND
2	RS485.A
3	RS485.B

J6 / Pin no.	J6 / Signal
1	GND
2	RS232.TXD
3	RS232.RXD
4	5V

J8 / Pin no.	J8 / Signal
1	24VAC_F
2	24VAC_N

J9 / Pin no.	J9 / Signal
1	MBUS+
2	MBUS-

BAS920COMM BLOCK DIAGRAM
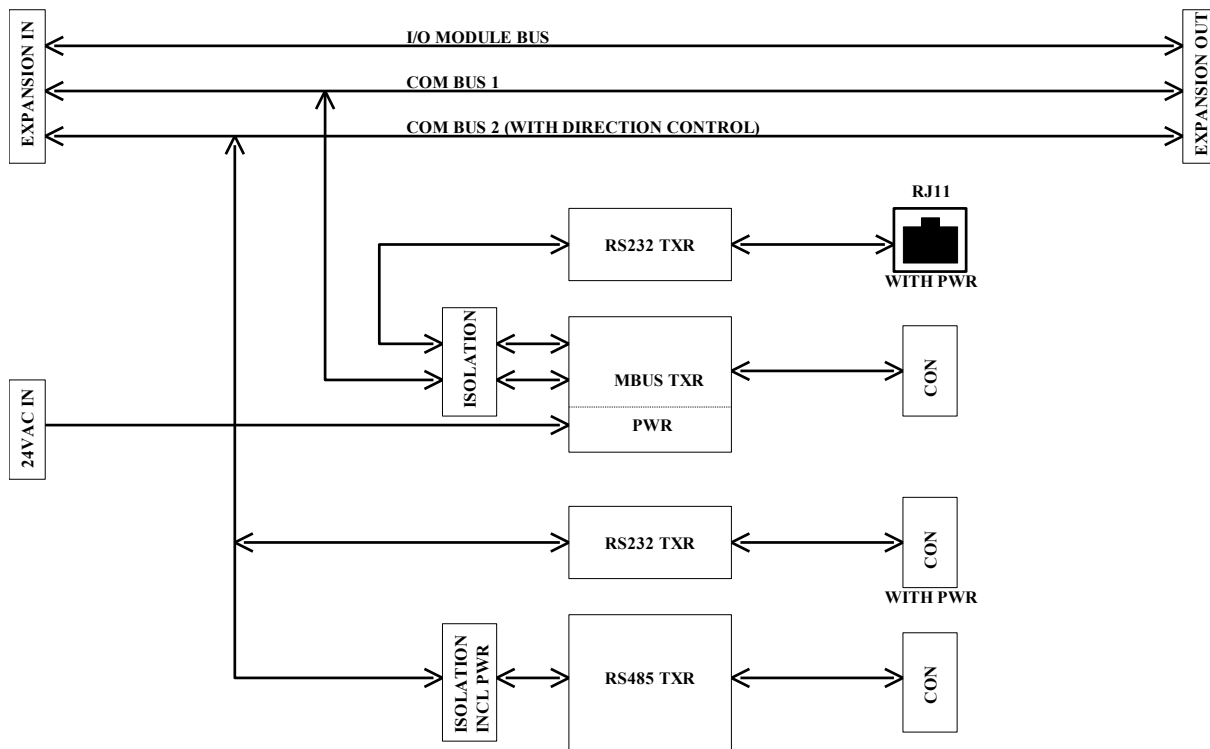
Tecnical data	
Power supply:	Supplied by BAS920, and additional 24VAC/300mA for M-Bus circuit supply.
Temperature	Storage -20 °C til +70 °C Operating -10°C til +60°C
Humidity	Max. 90% RH, non condensing
Enclosure	ABS/PC, IP20 71 x 86 x 58 mm 100 g
Communication channels	RS485/RS232 M-Bus RS232 to M-Bus converter