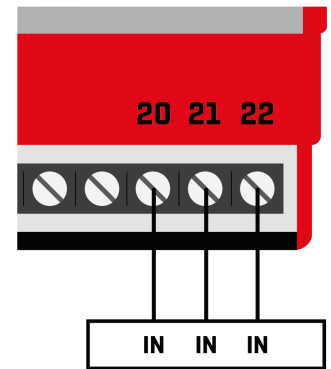# Expansion Cards for FirePLC BM-1000

BMX-1100 - 3-Channel Digital Input Expansion Card

The expansion card extends the BM-1000 module with an additional 3 inputs with continuity monitoring. The inputs operate in the same way as the built-in inputs in the BM-1000.

Technical parameters

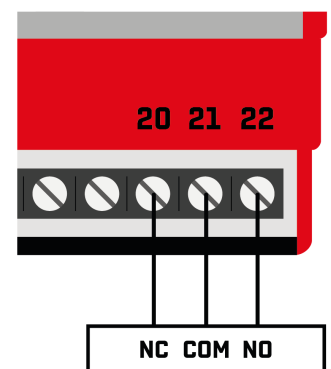| PARAMETER	VALUE
Number of inputs	3
Type	Digital with continuity monitoring
End-of-line resistor	10 kΩ

BMX-1200 - 1-Channel Relay Output Expansion Card

The expansion card extends the BM-1000 with an additional relay output. The relay can be used to control coils of other powered relays or contactors and for signal transmission.

Technical parameters

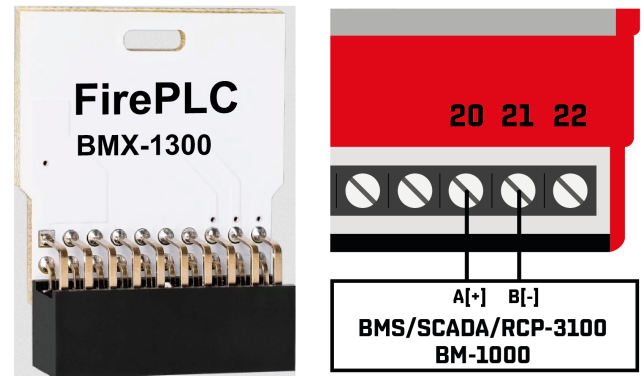| PARAMETER	VALUE
Current consumption	15 mA
Type	SPDT
Maximum voltage	30 V DC
Maximum current	1 A

innovation-vent.co

BMX-1300 - 1-Channel RS-485 Expansion Card

The expansion card extends the BM-1000 modules with a galvanically isolated RS-485 interface. After installation, it enables connecting the modules to SCADA/BMS systems, network operation, or integration with SmokeESC RCP-3100.

Technical parameters

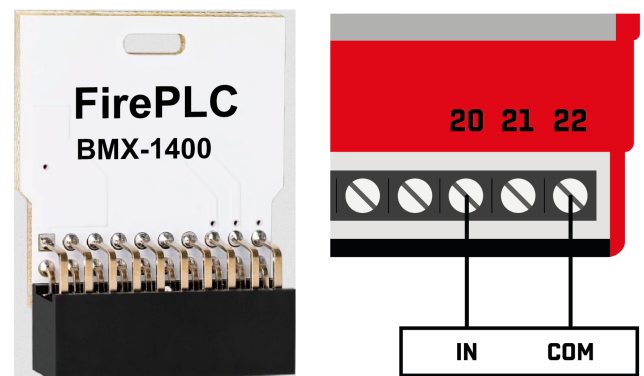| PARAMETER	VALUE
Current consumption	15 mA
Interface	RS-485
Communication	Modbus RTU
ESD protection	±15 kV

BMX-1400 - 1-Channel Analog Input 0 - 10 V Expansion Card

The expansion card extends the BM-1000 module with an analog input of 0-10 V. The input can be used to read the status of an actuator, frequency converter, or wind direction sensor.

Technical parameters

PARAMETER	VALUE
Number of inputs	1
Type	Analogowe, 0-10 V
Resolution	0.1 V
Current consumption	1 mA

BMX-1500 - 1-Channel Analog Output 0 - 10 V Expansion Card

The expansion card extends the BM-1000 module with an analog output of 0-10 V. The output can be used to control an actuator or a frequency converter.

Technical parameters

PARAMETER	VALUE
Number of outputs	1
Type	Analog, 0-10 V
Resolution	0.1 V
Current rating	10 mA