Manuals+ — User Manuals Simplified.

aritech 2X-A-LB Addressable 2 Loop Board Instructions

aritech 2X-A-LB Addressable 2 Loop Board

Installation Sheet

Description

The 2X-A-LB Loop Board provides two additional loops (LOOP3 and LOOP4) and four additional supervised outputs (OUT5, OUT6, OUT7, and OUT8) to compatible 2X-A control panels.

Caution: The 2X-A-LB Loop Board is only compatible for installation in 2X-A control panels.

Installation

WARNING: To avoid personal injury or death from electrocution, disconnect the control panel from the mains power supply and batteries before installing this product.

Recommended cable
Use 0.13 to 3.31 mm² (12 to 26 AWG) shielded or unshielded twisted-pair cable. Use the earth studs in the control panel cabinet for termination.
See your control panel installation manual for more information on cable and wiring recommendations.
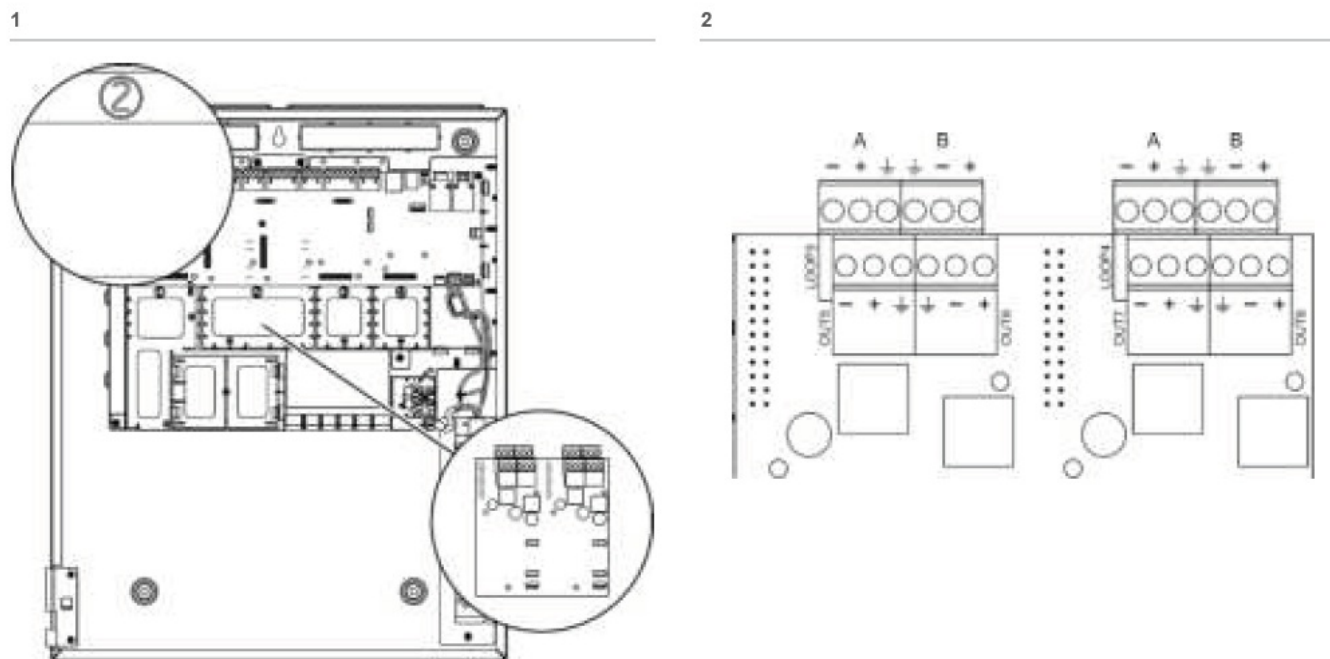
To install the expansion board:

1. Install the loop board into slot 2 of the control panel chassis, as shown in Figure 1. Push firmly to ensure a good connection. Secure the board with the screws provided.
2. Connect loops and configurable outputs as shown in Figure 2.
   Loop earth connection: Connect one side to the earth studs in the control panel cabinet (not to the loop earth terminal on the expansion board). The other side can be left floating.

Output connection: If an output is not used, install an end-of-line resistor across the unused terminals (refer to the Specifications table, configurable outputs) to avoid an open circuit fault on the output.

3. Restore power and add the device to the control panel configuration (see the control panel installation manual for further details).

4. Configure loops, outputs, and all connected devices. Check loop installations using a loop load calculator.

See your control panel installation manual for detailed information on loop and configurable output wiring and configuration.

Maintenance

Basic maintenance consists of a yearly inspection. Do not modify internal wiring or circuitry.

Specifications

Table 1: Loop and mechanical specifications

Max. loop board current consumption (no devices connected)	120 mA at 24 VDC [1]
Max. loop output current	
2000 Series protocol	500 mA [2]
900 Series protocol	250 mA
Supply voltage range	
2000 Series protocol	17 to 28 VDC ±1% (+ protocol modulation)
900 Series protocol	17 to 28 VDC ±1% (+ protocol modulation)
Resistance	
2000 Series protocol	52 Ω max. (26 Ω per wire)
900 Series protocol	52 Ω max. (26 Ω per wire)
Capacitance	
2000 Series protocol	500 nF max.
900 Series protocol	500 nF max.
LED indications	
Data transmission (TX)	2 red LEDs (one per loop)
Data receipt (RX)	2 green LEDs (one per loop)
Temperature	
Operation	−5 to +40°C
Storage	−20 to +60°C
Relative humidity	10 to 95% noncondensing
Dimensions (W x H)	106 x 110 mm
Weight	110 g

1. Supplied by the control panel.
2. Increased to 800 mA if the optional 2010-2A-PAK-HPL is installed.

Table 2: Configurable output specifications

Supervision [1]	
Class A	4.7 kΩ 1%, 1/4 W
Class B	15 kΩ 1%, 1/4 W
Maximum output current [2]	750 mA per output at 25°C 675 mA per output at 40°C
Maximum electrical characteristics for sounder activation	1 A startup current (t ≤ 2ms), load 100 µF
Output voltage range	
Open circuit	−21 to −28 VDC
Standby	−6.1 to −13.7 VDC
Activation	21 to 28 VDC
Short circuit	Less than −6.1 VDC

1. Reverse polarity, end-of-line resistor.
2. The maximum system consumption limit (Imax b) depends on the control panel power supply – see your control panel installation manual for details.

Regulatory information

Conformity	CE UKCA
Manufacturer	Carrier Manufacturing Poland Spółka Z o.o., Ul. Kolejowa 24, 39-100 Ropczyce, Poland.
	Authorized EU manufacturing representative: Carrier Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, Netherlands.

Contact information and product documentation

For contact information or to download the latest product documentation, visit **firesecurityproducts.com**.
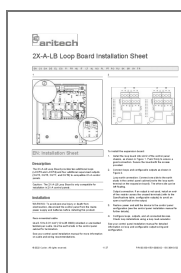
Product warnings and disclaimers

THESE PRODUCTS ARE INTENDED FOR SALE TO AND INSTALLATION BY QUALIFIED PROFESSIONALS. CARRIER FIRE & SECURITY B.V. CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS PRODUCTS, INCLUDING ANY "AUTHORIZED DEALER" OR "AUTHORIZED RESELLER", IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL FIRE AND SECURITY RELATED PRODUCTS.

For more information on warranty disclaimers and product safety information, please check **https://firesecurityproducts.com/policy/product-warning/** or scan the QR code:

Documents / Resources

	aritech 2X-A-LB Addressable 2 Loop Board [pdf] Instructions 2X-A-LB, Addressable 2 Loop Board, Loop Board, Addressable 2 Board, Board

References

- 🌐 **Home - Fire Security Products**
- 🌐 **Home - Fire Security Products**