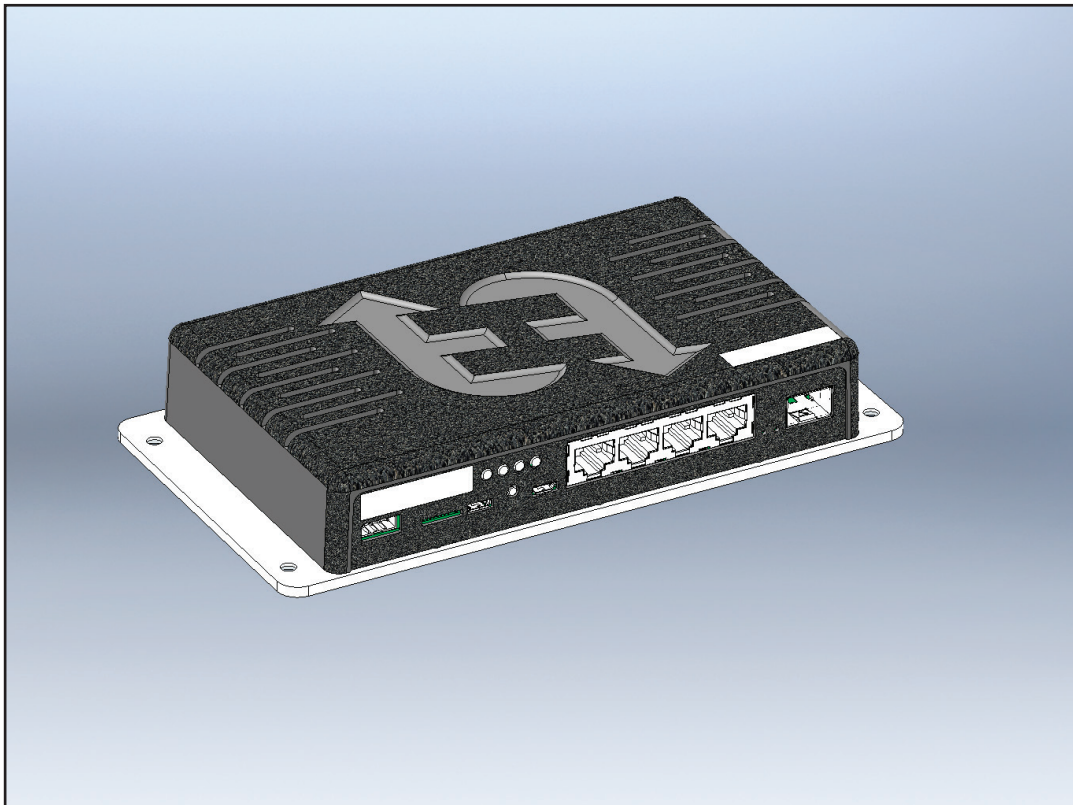# HyNet™ Gateway SFP 4/1

StrongArmPark DC 10 and StrongArmPark DCS 10
StrongArmPark DC 14 and StrongArmPark DCS 14

Installation Manual for HyNet Attachment: MX3867

This document is a supplemental document that provides specific information regarding configuration of the HySecurity gate operator with installation and wiring of the HyNet Gateway. For safety considerations and information specific to your gate operator, refer to the HySecurity gate operator product manuals.
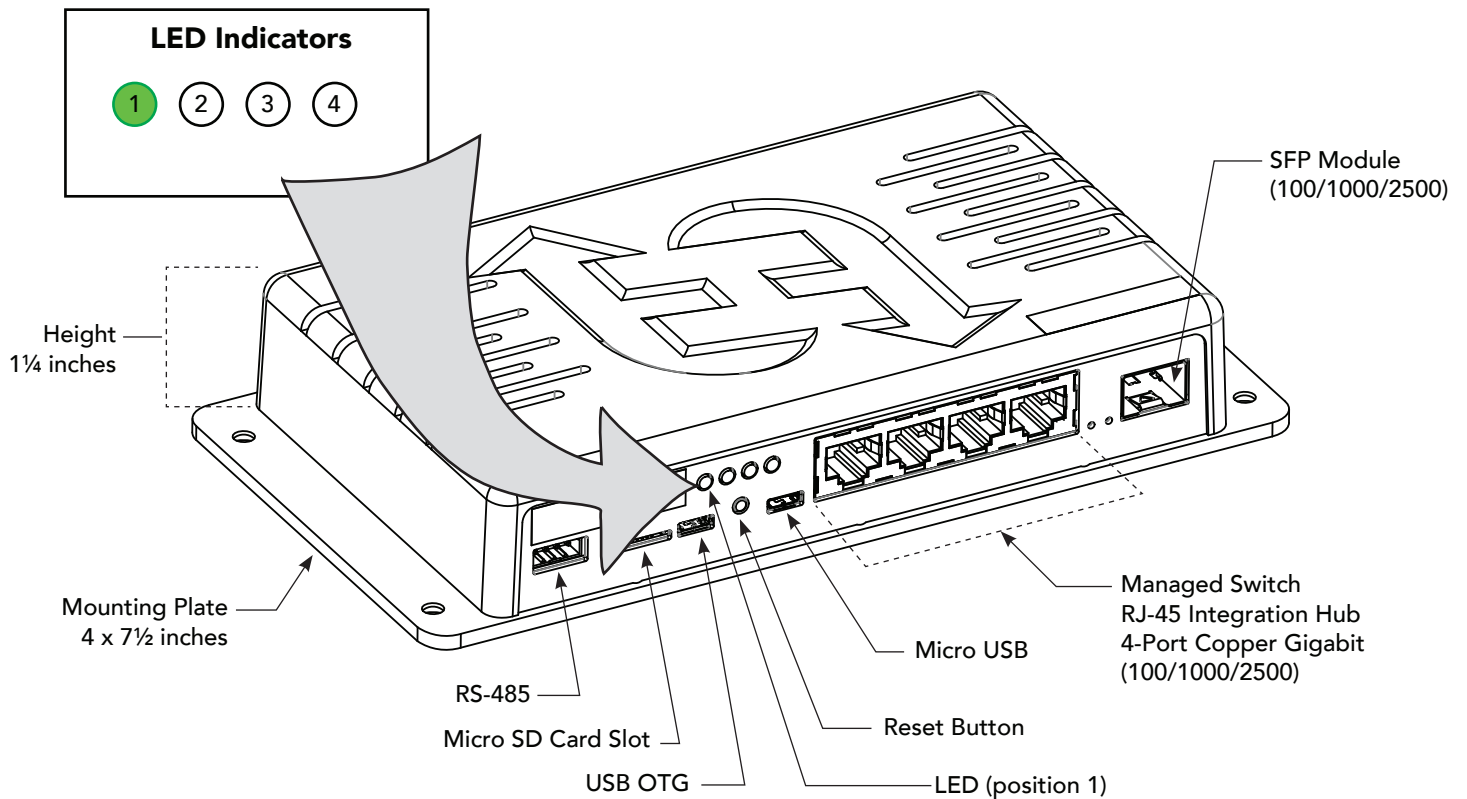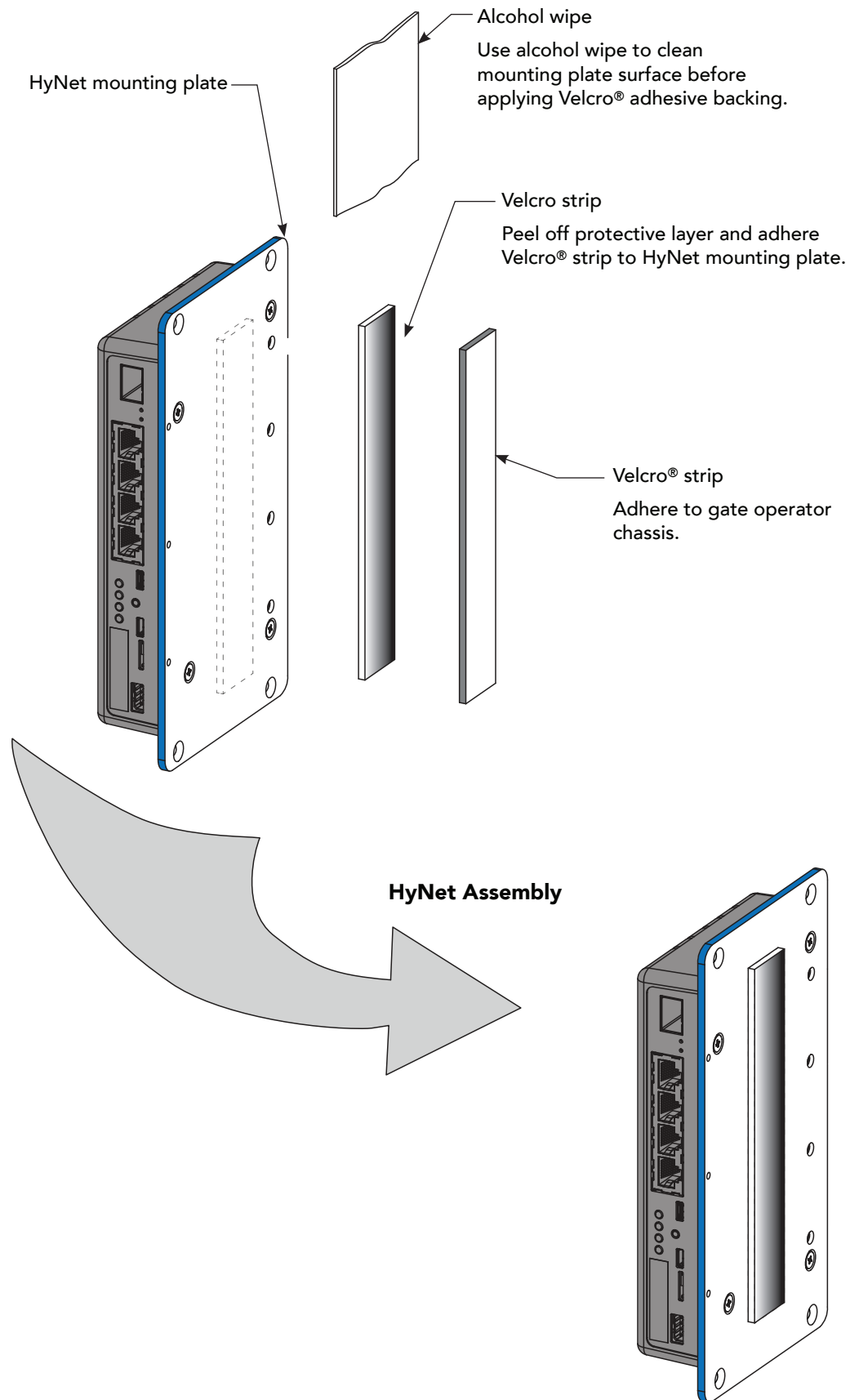
HySecurity®
Simple. Reliable. Secure.®

HyNet Components

LED Indicators

① ② ③ ④

Height
1¼ inches

Mounting Plate
4 x 7½ inches

RS-485

Micro SD Card Slot

USB OTG

Micro USB

Reset Button

LED (position 1)

SFP Module
(100/1000/2500)

Managed Switch
RJ-45 Integration Hub
4-Port Copper Gigabit
(100/1000/2500)

	Table 1: HyNet LED Indicators	
LED Position	**LED Color**	**Indicates**
1	RED flashing	No communication from gate operator to HyNet.
1	Green steady	Communication is established between gate operator and HyNet.
2	RED steady	Gate operator network communication is not configured or established.
2	RED flashing	HyNet is attempting to connect to network (web interface).
2	GREEN flashing	Network (web interface) is established and working. (May not be wholly configured, yet. Verify configuration with your IT administration.)
3	RED steady	Hardware fault.
3	RED flashing	Charge is low on coin battery. Replace coin battery.
3	GREEN steady	Hardware functioning and coin battery charged.
4	Red steady or no LED lit	HyNet internal switch is not functioning.
4	GREEN steady	HyNet internal switch is functioning.

Drawing is not to scale

StrongArmPark DC HyNet Assembly

HyNet mounting plate

Alcohol wipe

Use alcohol wipe to clean mounting plate surface before applying Velcro® adhesive backing.

Velcro strip

Peel off protective layer and adhere Velcro® strip to HyNet mounting plate.

Velcro® strip
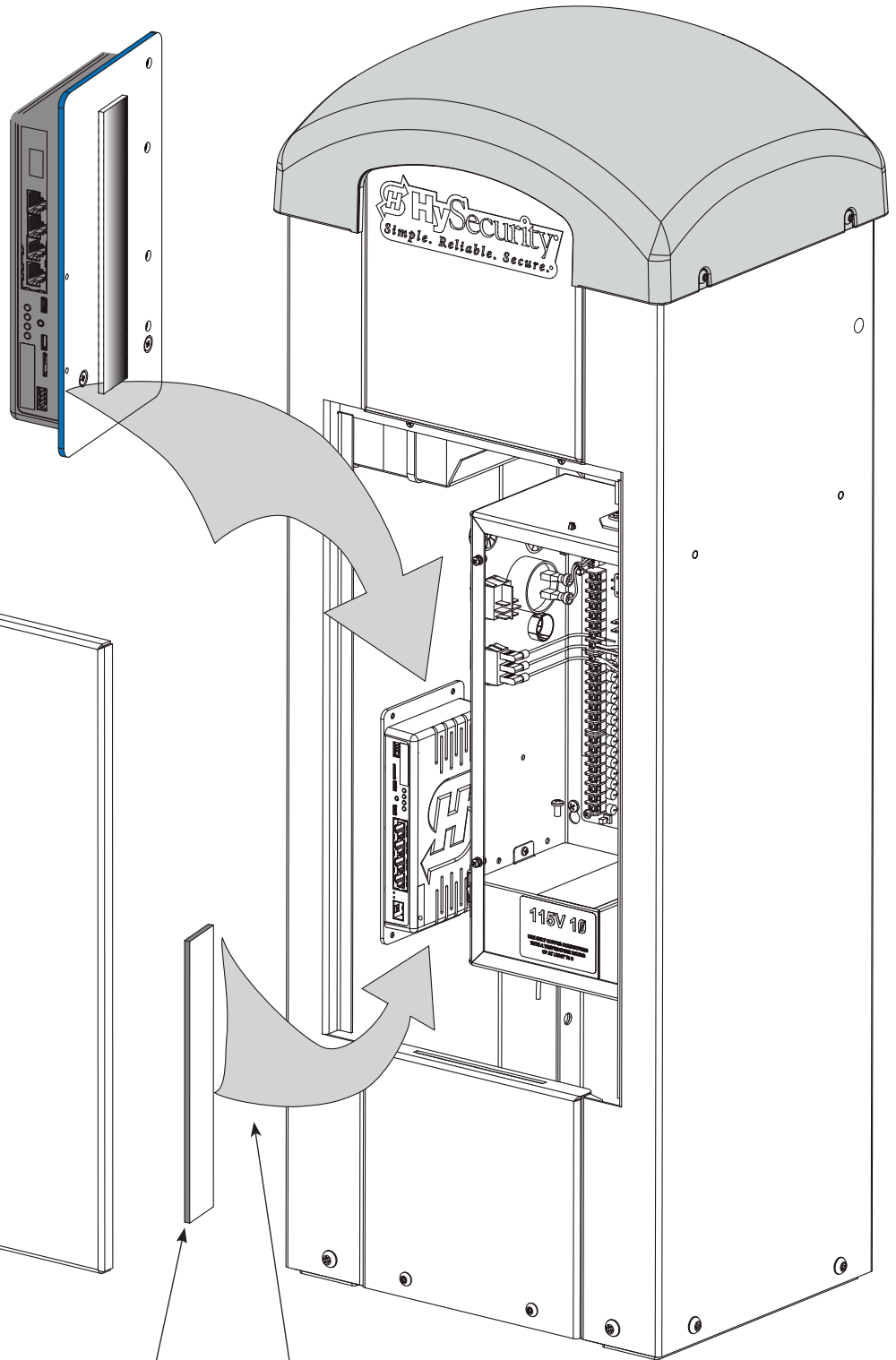
Adhere to gate operator chassis.

HyNet Assembly

Mount HyNet to StrongArmPark DC and StrongArmPark DCS

Set the HyNet onto the chassis so the ports are accessible as shown in the illustration. **4**

5 Connect wiring. See page 5.

6 Replace and secure covers.

Remove front cover panel **1**
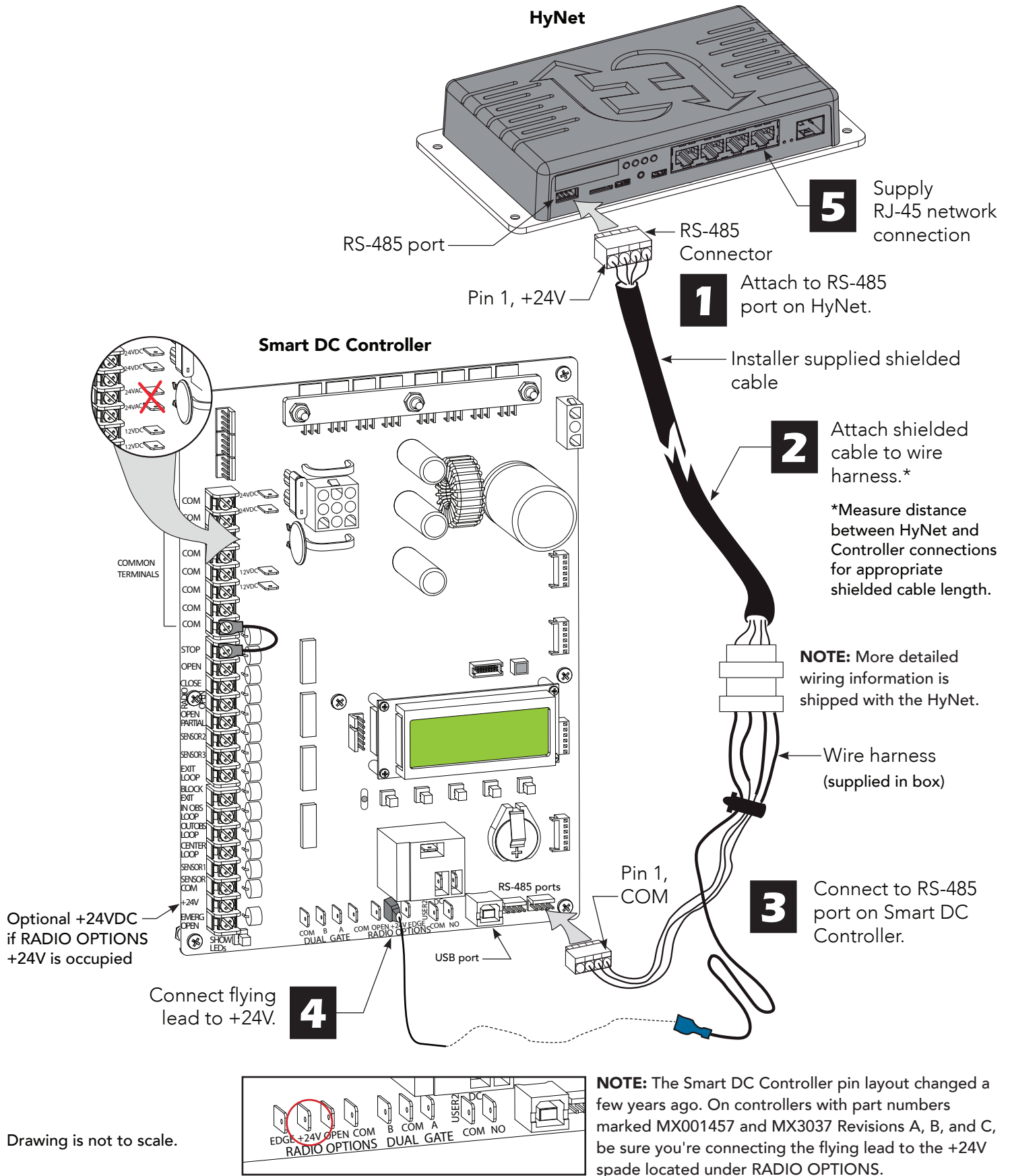
Peel protective paper off Velcro® strip. **2**

3 Adhere the Velcro® strip to the inside portion of the StrongArmPark DC chassis. Press firmly.

NOTE: Recommended HyNet location is shown in the illustration. Ambient temperature for adhesion is between 45° and 85° F.

Wiring the HyNet Gateway

HyNet

RS-485 port

5 Supply RJ-45 network connection

RS-485 Connector

Pin 1, +24V

1 Attach to RS-485 port on HyNet.

Installer supplied shielded cable

Smart DC Controller

24VDC
24VDC
24VAC
24VAC
12VDC
12VDC

COM   24VDC
COM   24VDC

COMMON TERMINALS

COM   12VDC
COM   12VDC
COM
COM
COM
STOP
OPEN
CLOSE
OPEN PARTIAL
SENSOR2
SENSOR3
EXIT LOOP
BLOCK EXIT
IN OBS LOOP
OUT OBS LOOP
CENTER LOOP
SENSOR1
SENSOR COM
+24V
EMERG OPEN
SHOW LEDs

Optional +24VDC if RADIO OPTIONS +24V is occupied

2 Attach shielded cable to wire harness.*

*Measure distance between HyNet and Controller connections for appropriate shielded cable length.

NOTE: More detailed wiring information is shipped with the HyNet.

Wire harness (supplied in box)

COM   B   A   COM OPEN +24V EDGE   COM   NO
DUAL GATE   RADIO OPTIONS

RS-485 ports

USB port

Pin 1, COM

3 Connect to RS-485 port on Smart DC Controller.

Connect flying lead to +24V.

4

Drawing is not to scale.

EDGE +24V OPEN COM   B COM A   USER2   DC   COM NO
RADIO OPTIONS   DUAL GATE

NOTE: The Smart DC Controller pin layout changed a few years ago. On controllers with part numbers marked MX001457 and MX3037 Revisions A, B, and C, be sure you're connecting the flying lead to the +24V spade located under RADIO OPTIONS.
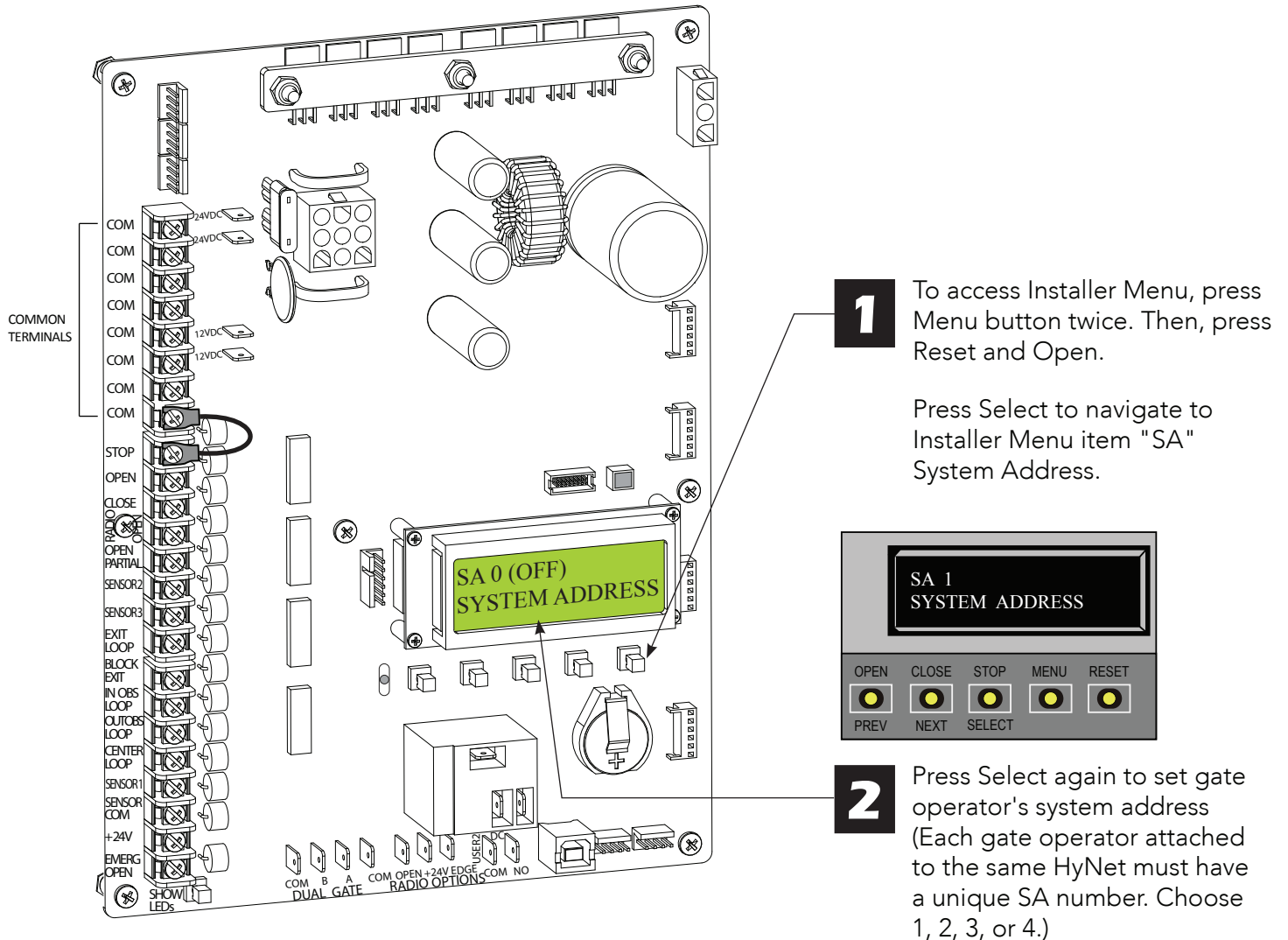
Smart DC Controller

HySecurity gate operators provide a 2-wire, serial interface (RS-485 connection) which allows remote access to one or more operators.

When the physical connection is made and protocols are established, an SA (System Address) must be assigned for each operator through its Installer Menu.

For network communication, choosing a "SA" of 1 to 4 establishes individual network polling addresses. HyNet only utilizes numbers 1, 2, 3, or 4.

A "SA" of zero means no network communication is desired.

1 To access Installer Menu, press Menu button twice. Then, press Reset and Open.

Press Select to navigate to Installer Menu item "SA" System Address.

2 Press Select again to set gate operator's system address (Each gate operator attached to the same HyNet must have a unique SA number. Choose 1, 2, 3, or 4.)

3 To exit Menu mode, press Menu. The gate operator returns to Run mode.

4 Refer to *Table 1: HyNet LED Indicators* on page 2. Solid green means serial communication is active and functioning well.

5 For IP network setup, refer to the HyNet Quick Start manual supplied in the HyNet box.

INSTALLER'S CHECKLIST

Date Installed: _____ **Gate Operator Model:** _____

Site Location: _____

HyNet Serial Number: _____

Gate Operator Serial Number: _____

Gate Operator Serial Number: _____

Gate Operator Serial Number: _____

Gate Operator Serial Number: _____

Customer Name: _____

Mailing Address: _____ **Inspected by:** _____

_____ **Date Inspected:** _____

Phone Contact: _____ **Phone contact number:** _____

	Checked	Initials

1. Site Planning ☐ _____

RJ-45 cable to system network.

2. Safety ☐ _____

Review *Important Safety Information* in the gate operator's product manual.

Warning labels apparent and affixed properly.

Area around the gate and gate operator free of debris, cabinets/chassis include locking mechanism.

3. Electrical ☐ _____

3.1 Grounding

- NFPA 780 Standard for the Installation of Lighting Protection Systems.
- Solid copper ground rod (⅜-inch diameter, 10 ft length) driven into ground within 3 ft of the gate operator.
- Single length of unspliced 6AWG copper wire less than 3 ft long attached to lug nut in gate operator.

3.2 Gate operator has current software loaded.

3.3 Configure the Controller

- Set the System Address (SA) in the Installer Menu.
- Communicate (verify) system address to IT Network Admin for proper web page configuration.

4. Review gate operator installation checklist from gate operator manual ☐ _____

5. Take photographs of installation and provide an End User Demo ☐ _____