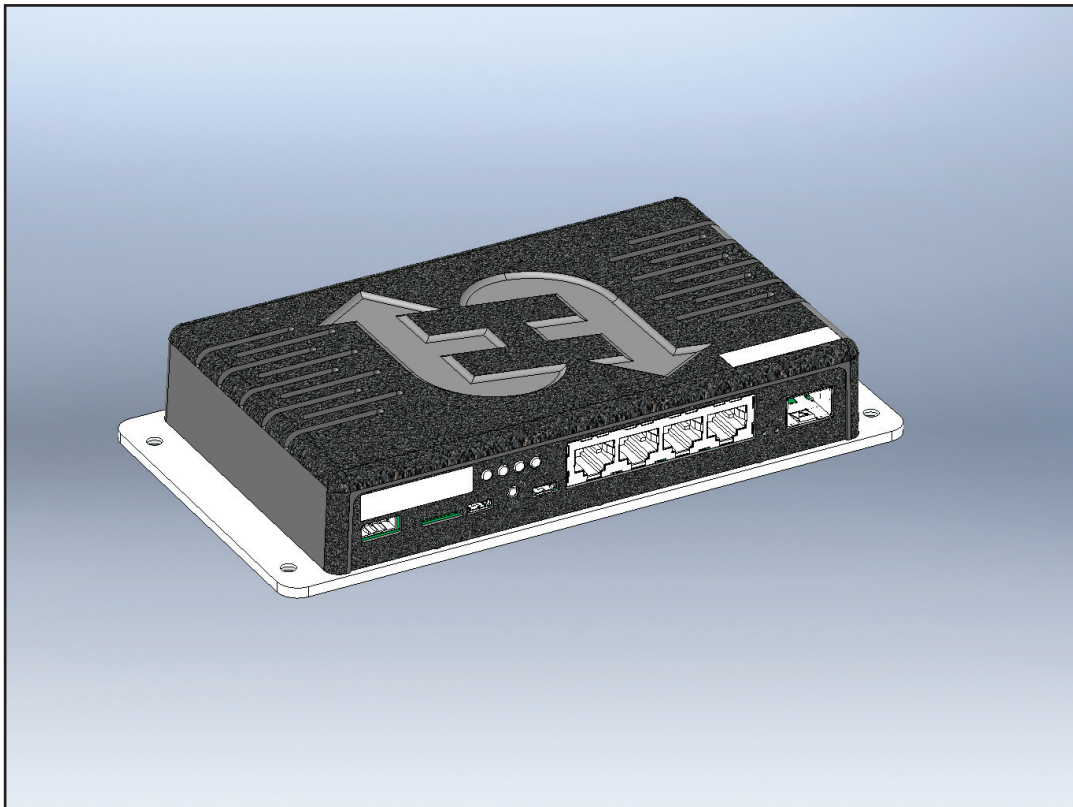# HyNet™ Gateway SFP 4/1

SlideDriver 15, 40, 30F, 80, 200
SlideDriver 50 VF series
StrongArm (HTG)

Installation Manual for HyNet Attachment Kit: MX3865

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.
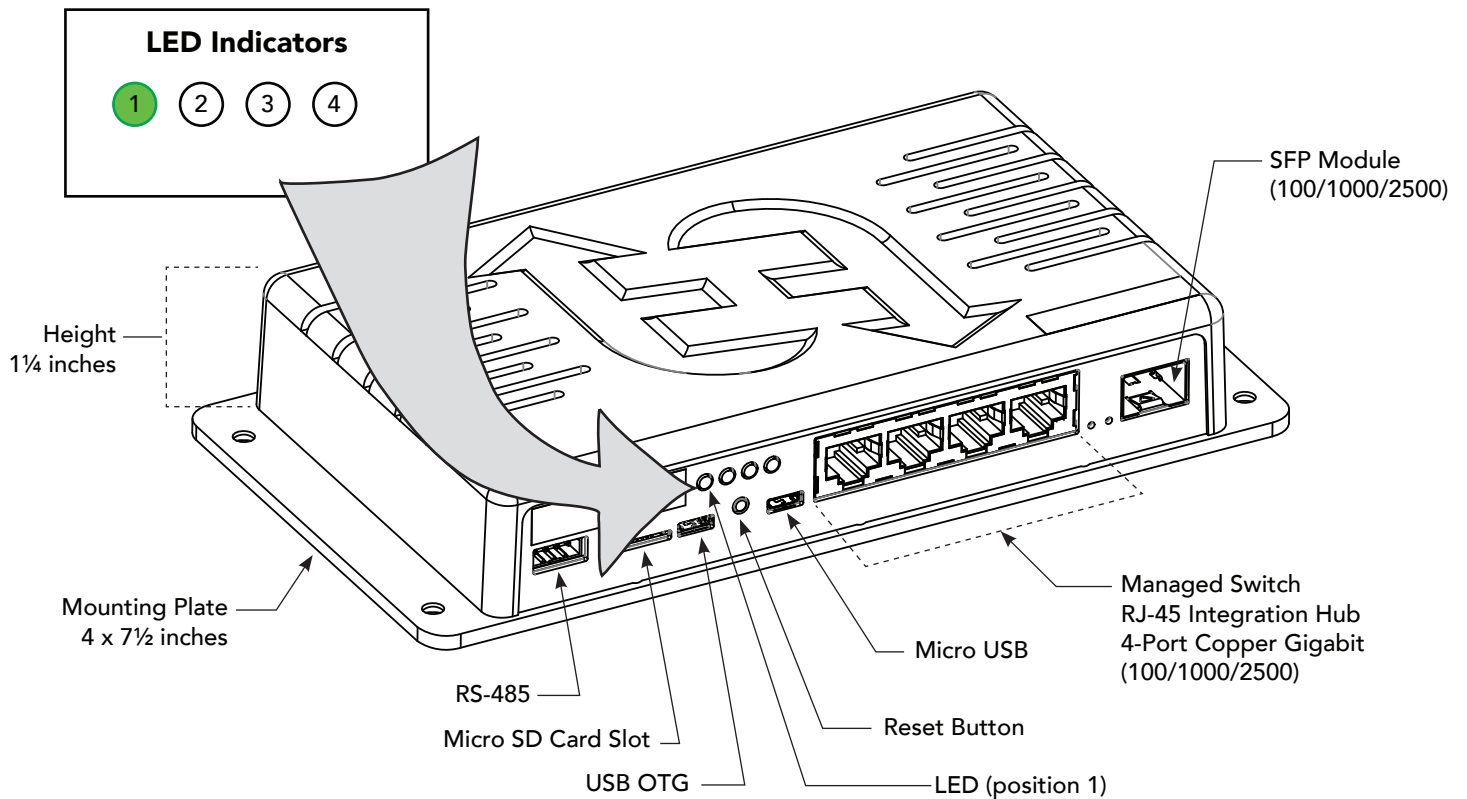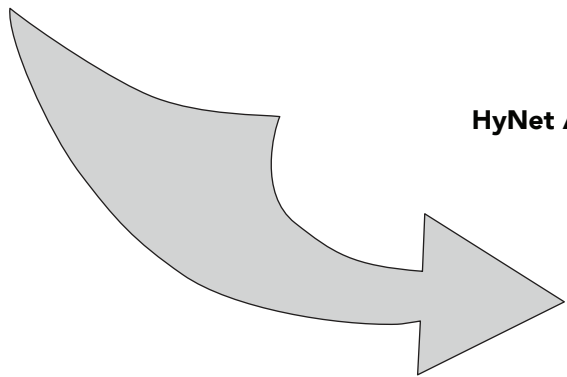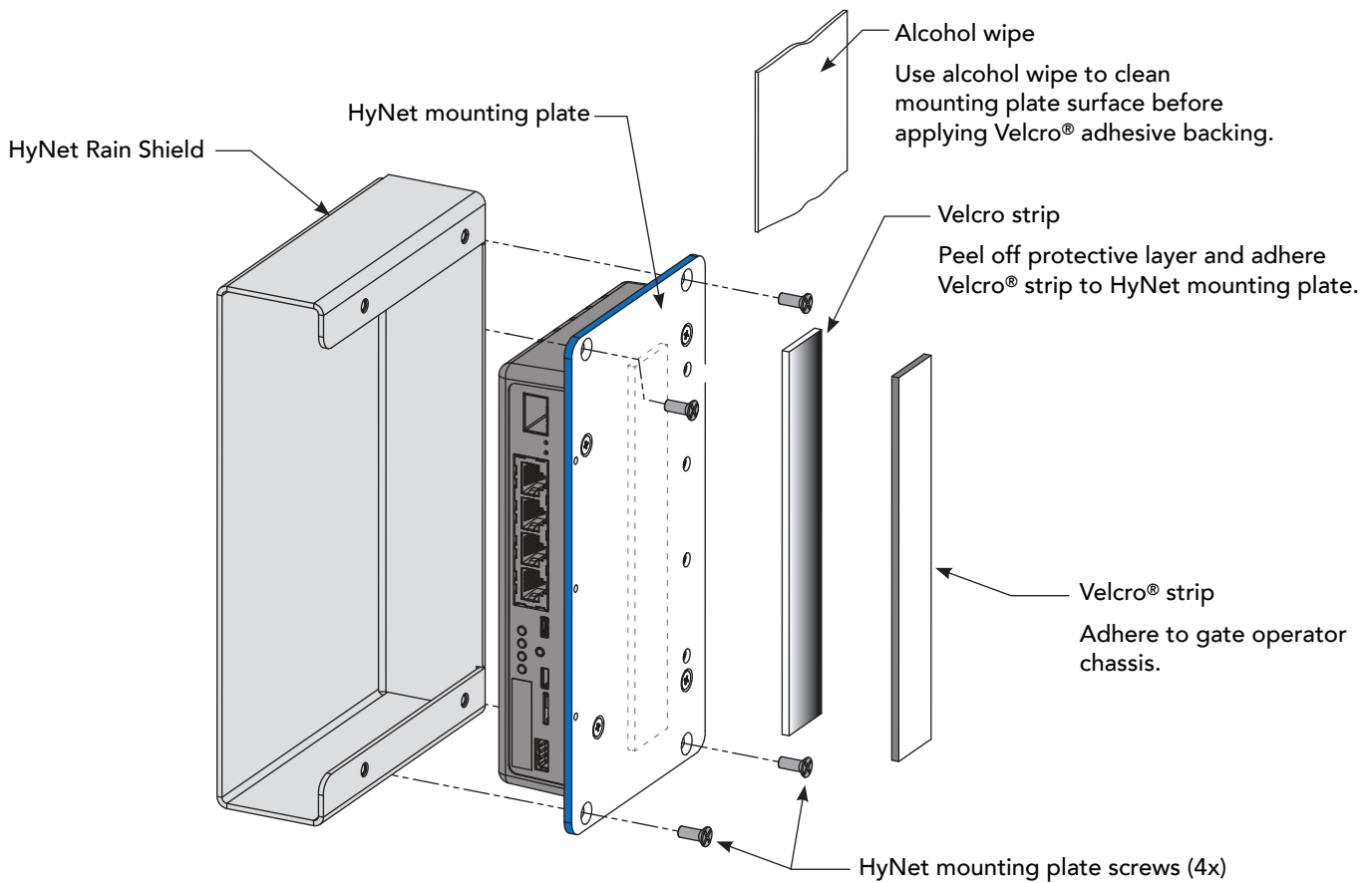
HySecurity®

Simple. Reliable. Secure.®

HyNet Components

LED Indicators

① ② ③ ④

SFP Module
(100/1000/2500)

Height
1¼ inches

Mounting Plate
4 x 7½ inches

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

RS-485

Micro USB

Micro SD Card Slot

Reset Button

USB OTG

LED (position 1)

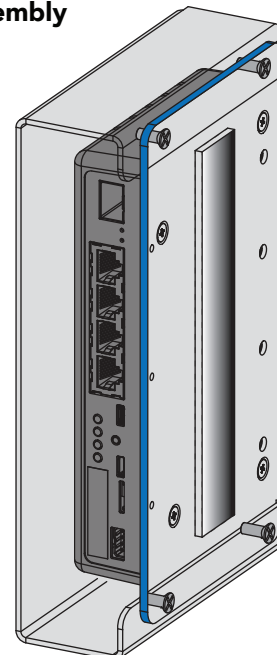| Table 1: HyNet LED Indicators		
LED Position	**LED Color**	**Indicates**
1	RED flashing	No communication from gate operator to HyNet.
1	Green steady	Communication is established between gate operator and HyNet.
2	RED steady	Gate operator network communication is not configured or established.
2	RED 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 administrator.)
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

HySecurity   D0717 Rev. A   HyNet Attachment Bracket Kit: MX3865   © 2016 www.hysecurity.com

HyNet Assembly for SlideDriver and StrongArm

HyNet Rain Shield

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 mounting plate screws (4x)

HyNet Assembly

Tools Required

- Phillips head screwdriver

Mount HyNet Assembly to SlideDriver

1 Loosen two base screws and lift SlideDriver chassis cover. Set it aside.

2 Peel protective paper off Velcro® strip.

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

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

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

5 Press firmly to engage the Velcro® loops and hooks.

6 Connect wiring. See page 6.

7 Replace SlideDriver chassis cover and secure gate operator.

Tools Required

• Phillips head screwdriver

Mount HyNet Assembly to StrongArm (HTG)

1 Lift StrongArm chassis cover and set it aside.

NOTE: If necessary, use the key to unlock the StrongArm door panel.
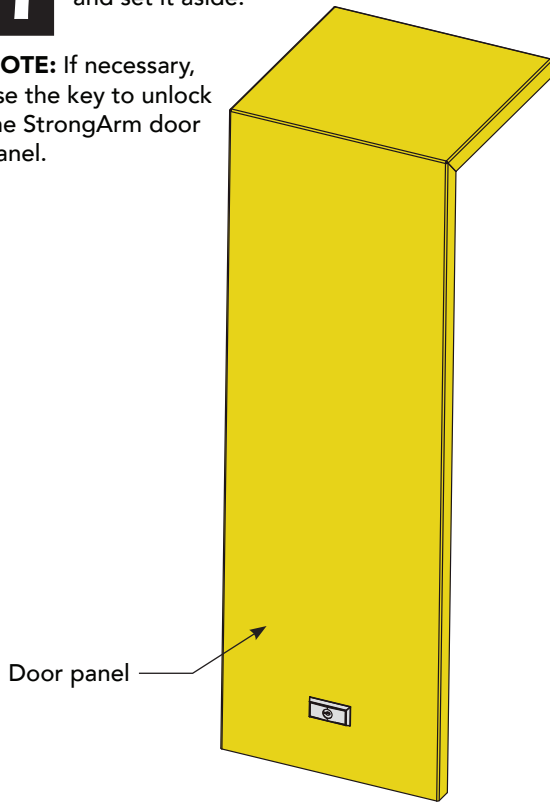
Door panel

2 Peel protective paper off Velcro® strip.

3 Adhere the Velcro® strip to the top shelf inside of the StrongArm chassis. Press firmly.

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

4 Set the HyNet onto the chassis shelf so the ports are accessible as shown in the illustration.
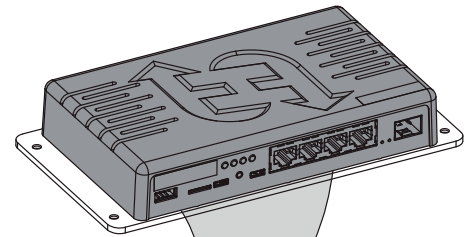
5 Press firmly to engage the Velcro® loops and hooks.

6 Connect wiring. See page 6.

7 Replace chassis cover and secure gate operator.

HyNet Gateway

Power Supply Board

4 Connect flying lead to +24VDC.

+24VDC Accessory Power (+)

Common Bus (−)

RS-485 ports

Pin 1, COM

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

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

RS-485 Connector

Wire harness (supplied in box)

Supply RJ-45 network connection **5**
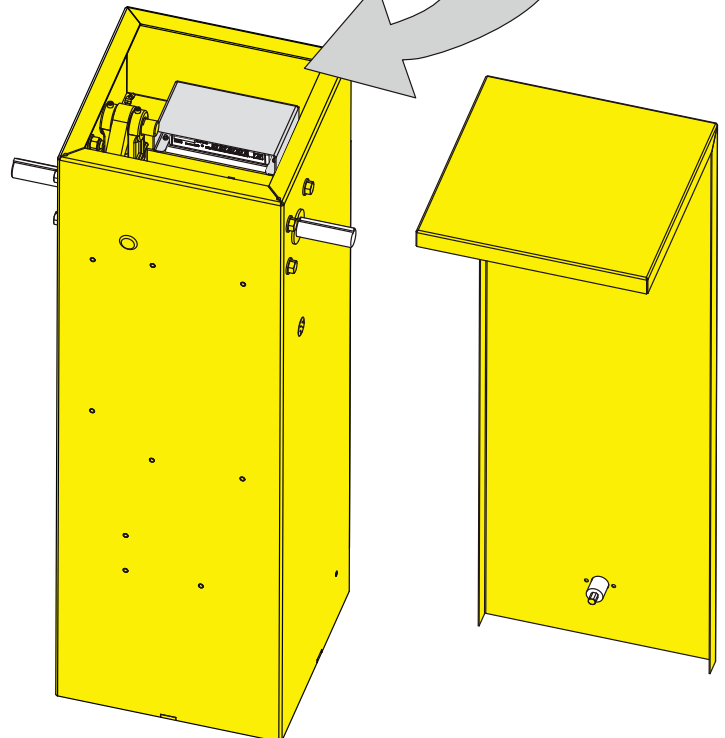
HyNet

DRIVE POWER RS485

Inputs

1	STOP BUTTON
2	OPEN BUTTON
3	CLOSE BUTTON
4	REMOTE OPEN AND RADIO CONTROL
5	OPEN/CLOSE
6	OPEN PARTIAL
7	INTERLOCK OPEN TIME CLOCK OPEN
8	FREE EXIT DETECTOR
9	DISABLE EXIT DETECTOR DISABLE CLOSE TIMER
10	INSIDE OBSTRUCTION VEHICLE DETECTOR
11	OUTSIDE OBSTRUCTION VEHICLE DETECTOR
12	SHADOW/RESET VEHICLE DETECTOR
13	SENSOR 1
14	SENSOR COM
15	
16	DO NOT USE
17	SENSOR 2
18	DO NOT USE
19	SENSOR 3
20	DO NOT USE
21	CHARGER AC LOSS
22	LOCK INTERLOCK
23	EMERG CLOSE
24	FIRE DEPT OPEN

MOTOR USER 1 USER 2 USER 3

STOP/BUZZER FREE EXIT VEHICLE DETECTOR INSIDE OBSTR VEHICLE DETECTOR OUTSIDE OBSTR VEHICLE DETECTOR SHADOW RESET VEHICLE DETECTOR

COM NO

STATUS

DISPLAY RS232

HySecurity

MX000585

VERSION

S/N

Tact button

LED

Smart Touch Controller

RS-485 Connector

RS-485 port

Pin 1, +24V

1 Attach to RS-485 port on HyNet.

Installer supplied shielded cable

2 Attach shielded cable to wire harness.*

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

LIMIT DUAL GATE RADIO OPTIONS

COM A B COM OPEN +24V +24V S 1 COM

RPM

WIEGAND

Smart Touch Controller

+ 24VDC

⚠ **CAUTION** DO NOT connect to +24V tabs at base of Smart Touch Controller. Only use the +24V connections on the Power Supply Board.
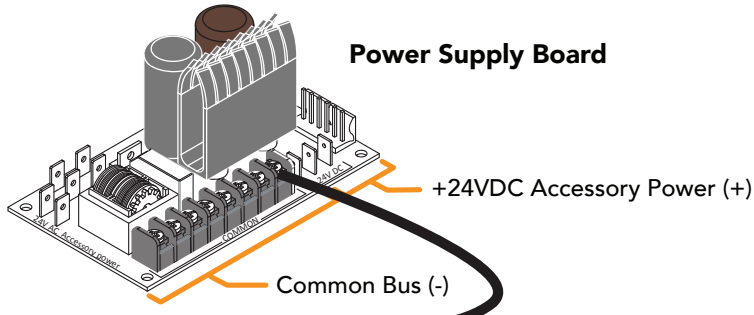
Drawing is not to scale.

Smart Touch Controller

HySecurity gate operators provides a 2-wire, serial interface (RS-485 connection) which allows remote access to one or more operators.
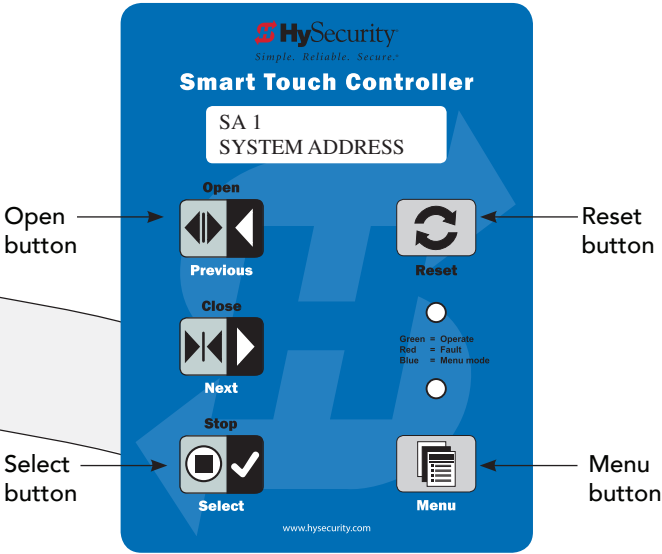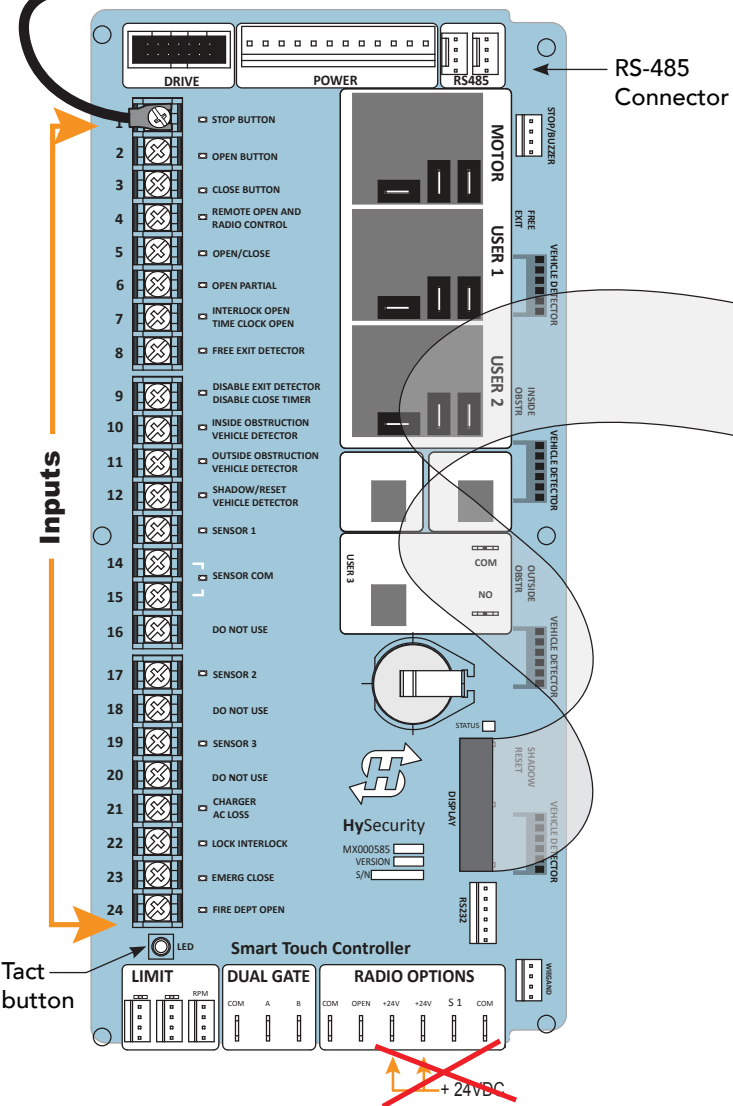
When the physical connection is made and protocols are established, an SA (System Address) must be assigned for each operator through its Installer Menu.

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.

Power Supply Board

+24VDC Accessory Power (+)

Common Bus (-)

RS-485 Connector

Inputs

1	STOP BUTTON
2	OPEN BUTTON
3	CLOSE BUTTON
4	REMOTE OPEN AND RADIO CONTROL
5	OPEN/CLOSE
6	OPEN PARTIAL
7	INTERLOCK OPEN TIME CLOCK OPEN
8	FREE EXIT DETECTOR
9	DISABLE EXIT DETECTOR DISABLE CLOSE TIMER
10	INSIDE OBSTRUCTION VEHICLE DETECTOR
11	OUTSIDE OBSTRUCTION VEHICLE DETECTOR
12	SHADOW/RESET VEHICLE DETECTOR
	SENSOR 1
14	SENSOR COM
15	
16	DO NOT USE
17	SENSOR 2
18	DO NOT USE
19	SENSOR 3
20	DO NOT USE
21	CHARGER AC LOSS
22	LOCK INTERLOCK
23	EMERG CLOSE
24	FIRE DEPT OPEN

DRIVE POWER RS485

MOTOR
FREE EXIT
USER 1
VEHICLE DETECTOR
INSIDE OBSTR
USER 2
VEHICLE DETECTOR
OUTSIDE OBSTR
COM
NO
USER 3
VEHICLE DETECTOR
STOP/BUZZER
STATUS
SHADOW RESET
DISPLAY
VEHICLE DETECTOR
RS232

HySecurity
MX000585
VERSION
S/N

Smart Touch Controller

Tact button

LED

LIMIT DUAL GATE RADIO OPTIONS
RPM
COM A B COM OPEN +24V +24V S 1 COM
WIEGAND

+ 24VDC

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.

HySecurity
Simple. Reliable. Secure.

Smart Touch Controller

SA 1
SYSTEM ADDRESS

Open
Previous

Close
Next

Stop
Select

Reset

Green = Operate
Red = Fault
Blue = Menu mode

Menu

www.hysecurity.com

Open button

Select button

Reset button

Menu button

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 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 (⅝-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   ❑   _____