



Installation Instructions

Tracer® SC System Controller with PM014 Supply Module

Order Number: **BMSC000AAA01100**

X3641154-01

SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

December 2020

BAS-SVN215J-EN

© 2020 Trane



1

Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert

NOTICE

Indicates a situation that could result in equipment or property-damage only accidents.

Packaged Contents

One (1) Tracer SC module (controller)	One (1) Power supply module (PM014)
Two (2) 4-position terminal block plugs	Six (6) 3 position terminal block plugs
One (1) LON termination kit	Two (2) 2 position terminal block plugs
One (1) Installation sheet	One (1) IMC power cable 3 in. (75 mm) long
One (1) phone cable	

Required Tools

- 5/16 in. (8 mm) slotted screwdriver
- 1/8 in. (3 mm) slotted screwdriver

2

WARNING

Hazardous Voltage!

Disconnect all electrical power, including remote disconnects, before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Failure to disconnect power before service could result in death or serious injury.

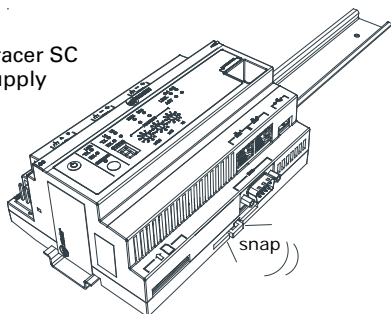
Mounting and Removing the Tracer SC and the Power Supply Module

- The mounting location must meet the temperature and humidity specifications as outlined in [Table 1](#).
- Do not mount on a flat surface, such as on a floor or on top of a table. Mount in an upright position with the front facing outward.

To mount the Tracer SC or the power supply module:

1. Hook the top half of the Tracer SC onto the DIN rail.
2. Gently push on the lower half of the Tracer SC until the release clip snaps into place.
3. Hook the top half of the power supply module onto the DIN rail next to the Tracer SC.
4. Gently push lower half of power supply module until the release clip snaps into place.

Mounting the Tracer SC (or the power supply module)



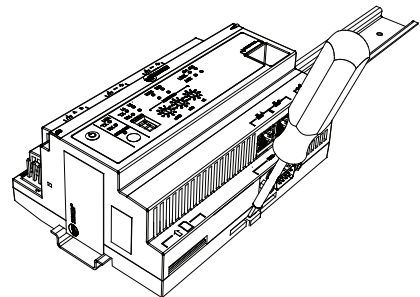
3

Removing or Repositioning the Tracer SC or the Power Supply Module

To remove or reposition the Tracer SC or the power supply module:

1. Insert a screwdriver into the slotted release clip and gently pry upward on the clip with the screwdriver, **OR**; If the screwdriver fits the slot size, insert the screwdriver into the slotted release clip and rotate it to the left or right to release tension on the clip.
2. While holding tension on the slotted release clip, lift the Tracer SC (or power supply module) upward to remove or reposition.
3. If repositioning, push on the Tracer SC (or power supply module) until the slotted release clip snaps back into place.

Removing the Tracer SC



Wiring and Applying Power

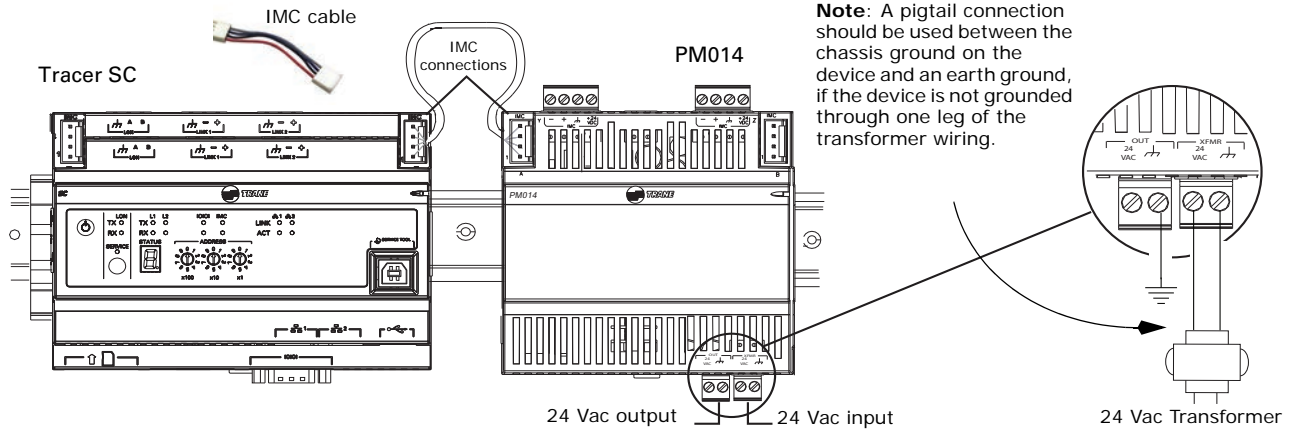
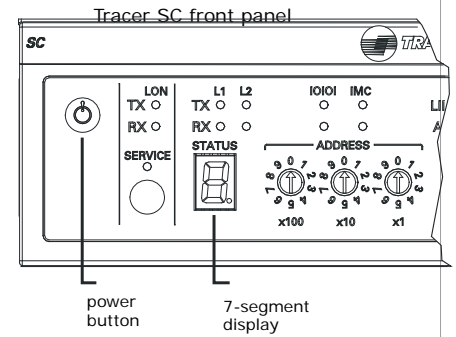
1. Connect one end of the provided IMC power cable to the IMC connection on the Tracer SC.
Connect the other end of the IMC power cable to the IMC connection on the power supply module.
2. Wire the 24 Vac input connection to a dedicated 24 Vac, Class 2 transformer.
3. Ensure the PM014 is properly grounded.

Important: This device must be grounded for proper operation! The factory-supplied ground wire must be connected from any chassis ground connection on the device (⚡) to an appropriate earth ground (⊕). The chassis ground connection can be the 24 Vac transformer input at the device, or any other chassis ground connection on the device.

Note: Neither the Tracer SC nor the PM014 is grounded through the DIN rail connection.

4. Apply power to the Tracer SC by pressing the power button.
All status LEDs illuminate and the following sequence flashes on the 7-segment display: 8, 7, 6, 5, 4, L, dancing dash pattern. The dancing dashes continue while the Tracer SC is operating normally.

Note: For more information see "Tracer SC Installation and Setup Guide," BAS-SVX31, and "Power Supply Module PM014 Installation, Operation, and Maintenance", BAS-SVX33.



Specifications

Table 1. Tracer SC Specifications

Power Requirements	
(From PM014) 24 Vdc @ 0.3A; 14VA max (PM014 input VA).	
Storage	
Temperature:	-40°C to 70°C (-40°F to 158°F)
Relative humidity:	Between 5% to 95% (non-condensing)
Operating Environment	
Temperature:	-40°C to 50°C (-40°F to 122°F)
Humidity:	Between 10% to 90% (non-condensing)
Input power:	24 Vac
Product weight	1 kg (2.2 lb.)
Altitude:	Maximum 2,000 m (6,500 ft.)
Installation:	Category 3
Pollution	Degree 2

Agency Listings and Compliance

The European Union (EU) Declaration of Conformity is available from your local Trane® office.

Trane - by Trane Technologies (NYSE: TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.