



## Installation Instructions

# Service Part For Tracer® UC400/BCI-C/ BCI-I MOD02073 (X13651492-02)



This service part is used for the replacement of the following equipment:

- Tracer® UC400 programmable controller.
- BACnet® Communication Interface for Chillers (BCI-C).
- BACnet Communication Interface for IntelliPak (BCI-I).

### Required Tools

- Tracer TU
- USB Cable

X39641210-01

#### **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.

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## 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.

### Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs such as HCFCs and HFCs.

### Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified. The Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

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#### **WARNING**

##### **Proper Field Wiring and Grounding Required!**

Failure to follow code could result in death or serious injury. All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.

#### **WARNING**

##### **Personal Protective Equipment Required!**

Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards. Before installing/servicing this unit, technicians **MUST** put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. **ALWAYS** refer to appropriate SDS sheets and OSHA guidelines for proper PPE. When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations. If there is a risk of arc or flash, technicians **MUST** put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection **PRIOR** to servicing the unit. Failure to follow recommendations could result in death or serious injury.

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## UC400 Replacement

The MOD02073 service part ships with installed UC400 firmware.

To replace a UC400 controller with Part Number MOD02073, refer to the following literature:

- **BMUC400AAA0100011**: refer to the Tracer UC400 Programmable Controller IOM (BAS-SVX20).
- **UC400 VAV field-installed controls kit**: refer to the Tracer UC400 VAV Controller Field Kit Installation Instructions (X39641197-01).
- **VAV boxes with UC400**: refer to the Tracer UC400 Programmable BACnet Controller IOM (VAV-SVX07). **Blower Coils with UC400**: refer to the Tracer UC400 Programmable Controller for Factory- or Field-Installed Blower Coil (BAS-SVX48).

**Note:** It is not necessary to perform the firmware installation procedure unless upgrading to the current firmware version.

## BCI-C Replacement

#### **NOTICE**

Install BCI-C firmware before installing the MOD02073 service part! Failure to do so can cause equipment lockup.

To replace the BCI-C controller:

1. Install the BCI-C firmware by following the procedure below.
2. To install Part Number MOD02073, refer to the BACnet Communication Interface for Chiller (BCI-I) Field Kit Installation Guide (RF-SVN02).

## BCI-I Replacement

#### **NOTICE**

Install BCI-I firmware before installing the MOD02073 service part! Failure to do so can cause equipment lockup.

To replace the BCI-I controller:

1. Install the BCI-I firmware by following the procedure below.
2. To install Part Number MOD02073, refer to the BACnet Communication Interface for IntelliPak (BCI-I) Field Kit Installation Guide (RT-SVN13).

## Installing Firmware

1. Establish a connection between the Tracer TU service tool and the controller. The following message displays if no application code is present. Click **OK**.



2. Open the **Transfer Files Wizard** by clicking  located at the top left side of the screen.
3. Click **Next**. After verifying that the appropriate device name is selected (for either *UC400 Hardware*, *BCI-I Hardware*, or *BCI-C Hardware*), click **Next**.
4. Click **Browse**. Select and open the Firmware folder.
5. Select and open the appropriate device folder: UC400, BCI-I, or BCI-C.
6. Select the most current firmware file. Click **Open** to select the file for transfer.
7. Verify that the correct firmware file appears in the File column. Click the **Start Transfer** button. The screen indicates when the file transfer is complete.

## Agency Listings and Compliance

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

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