1.0 Application

Applies to installation of new firmware on furnace all LCI and RTC infrared furnaces equipped with an LCM4 furnace controller.

1.1 Equipment

Firmware o44slcR4.1e (1 file)

OptoTerm.exe utility (3 files).

LCM4 controller with Ethernet connection

1.2 Preparation

Download version 4.1b or later of OptoTerm to C:\Opto22\Util\.

Copy firmware 4.3e to jumpdrive or obtain Opto22 Controller Programming Kit R6.0a

Turn OFF LCM4 controller.

Remove jumper X1.

Turn ON LCM4 controller.

1.3 Installation

Open OptoTerm.exe. (click on OptoTerm.exe or go to Start\Programs\Opto22\Optoterm), Fig 1-1.

Select File\Download Controller Kernel. Fig 1-2

Go to drive\directory where firmware is located.

Select firmware (o44slcR4.1e) see fig 1-3.

Click OK. Firmware download should start.

1.4 Reset Controller

Turn OFF LCM4 controller

Replace X1 jumper

Turn ON LCM4 controller

Press Download icon on furnace computer to re-download furnace program to controller.
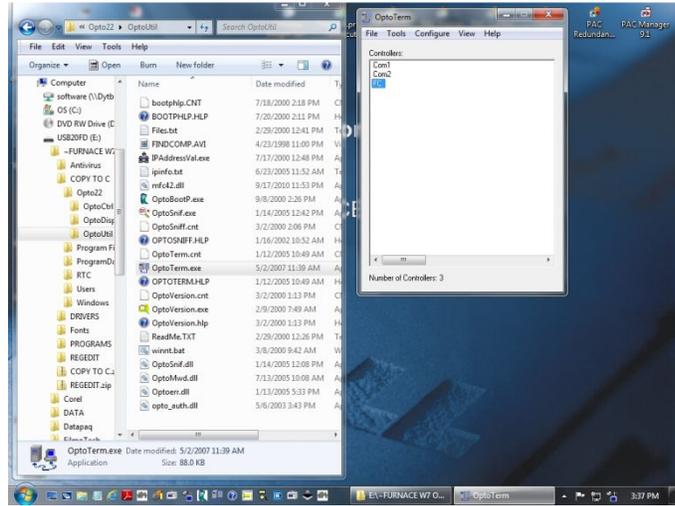
Start Furnace program.
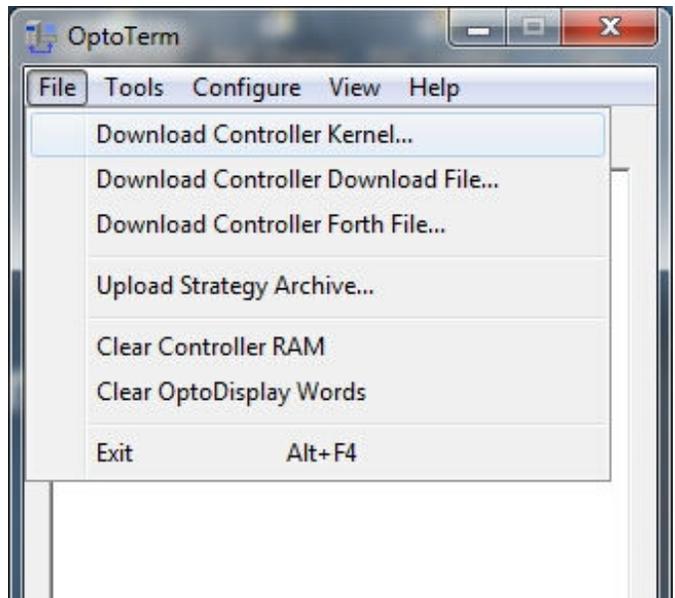

Figure 1-1 Open OptoTerm.exe

Figure 1-2 select Download Controller Kernel

Figure 1-3 Select firmeware file

1.5 Inspecting Controller

In the OptoTerm main window, double-click the name of the controller (FC) to view controller installed version and status.

Figure 1-4 Inspect Controller