

UL, ULC, CSFM Listed; FM  
Approved; MEA (NYC)  
Acceptance\*

## Features

### General description

- Dual RS-232 port module with port B dedicated for master clock/ master time interface
- RS-232 port A is available for connection to printers, terminals, or other compatible peripherals
- Allows the 4100ES Fire Control Panel system time to be synchronized with the building master time or other desired compatible time reference
- Compatible with 4100U fire alarm control panels
- Includes a 4.5 ft (1.4 m) connection cable with DB-25, RS-232 connector

### Master clock interface compatibility

- Connects to master time control centers such as the model 6500 that provides Simplex BCD (binary coded decimal) time signals to the model 6400-9568 BCD Code Converter\*\*
- For extended timekeeping accuracy, the model 6500 Time Control Center can be connected to GPS Time Reference Interface Module GPS/6400\*\*\*
- Compatible with other RS-232 interfaces that accept and respond to QT (query time) and QD (query date) requests

### Mounting

- Motherboard/daughter card format requires a single slot and mounts in an expansion bay

## Description

Simplex fire alarm control units maintain time and date for reference in the history logs. For applications where a master time control exists in the facility, the 4100-9816 Master Clock Interface Module provides an interface for coordinating the fire alarm control panel time to that of the master reference.

When time accuracy requirements include synchronization to GPS satellite time, the GPS/6400 Interface Module with the GPS-427A Antenna/Receiver can be connected to the model 6400 or 6351 Time Control Center.

For additional information, refer to *Installation and Operating Instructions 574-913*.

For additional BCD Code Converter information refer to datasheet S6400-0002. For additional 6500 information, refer to data sheet S6500-9000. For additional GPS/6400 information refer to data sheet GPS6400BRO1.

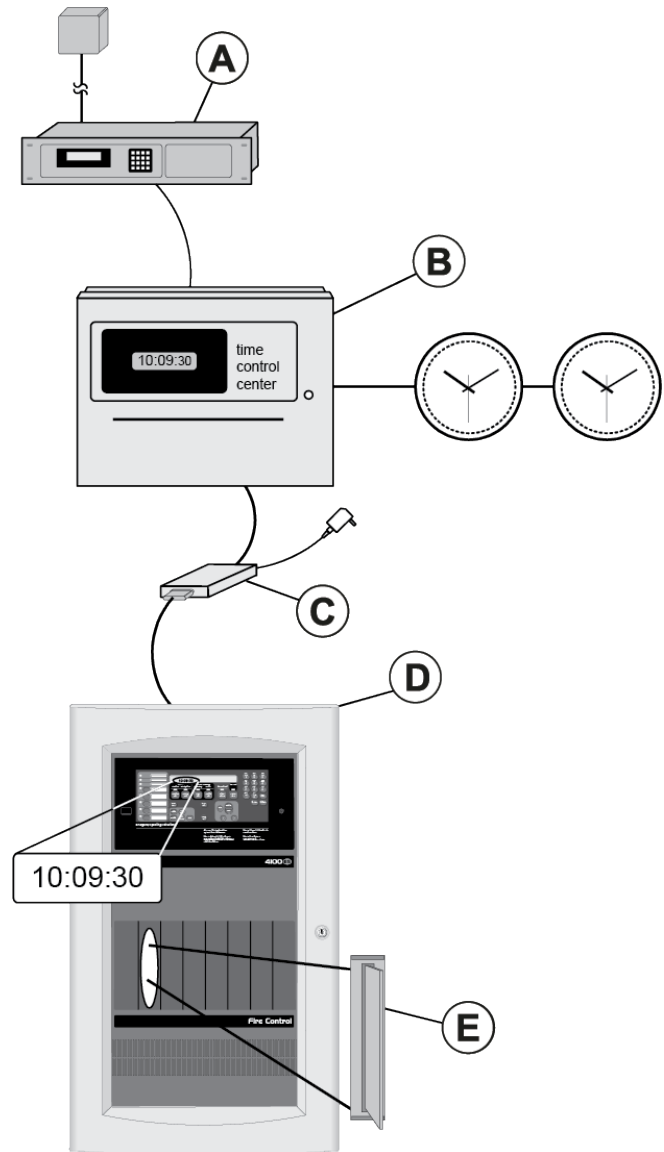


Figure 1: Typical 4100ES Master Clock Interface Block Diagram

Callout	Description
A	GPS/6400 Interface System
B	6500 Series Time Control Center with system clocks
C	6400-9568 Code Converter
D	4100ES Fire Alarm Control Panel
E	4100-9816 Master Clock Interface Module

\* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7165-0026:251 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Safety Products Westminster.

## Specifications

**Table 1: Specifications**

Specification	Rating
Standby Current	132 mA @ 24 VDC
Alarm Current	132 mA @ 24 VDC
Operating Temperature Range	32 °F to 120 °F (0 °C to 49 °C)
Humidity Range	Up to 93% RH, non-condensing @ 90 °F (32 °C)
Mounting	Single slot motherboard/daughter card
Connections Provided	DB-25 plugs and terminal blocks

## 4100-9816 Master Clock Interface System Reference

