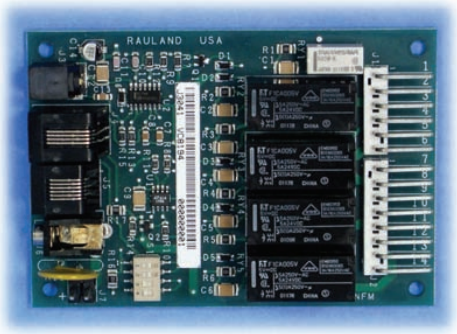
Time Control Equipment

Model: TCCKINFM — Clock Interface Module



TCCKINFM

Features

- Provides a direct interface between the TCAMCS and Telecenter Systems, Master Clocks and Secondary Clocks
- Replaces 2417 and 2418 buffer and relay modules
- Compact size fi ts inside 2515 power supply chassis
- Facilitates simplifi ed “master-less” clock system installation and connection

Specifications

Power Consumption: TCCKINFM draws a maximum of 500mA from a 5.0VDC supply with all relays energized.The TCCKINFM can be powered through the connection of an RJ14 cable included with the TCAMCS (on J5). An external 5.0VDC power supply (rated minimally for 500mA) can be used. VP0660 (5.0VDC 1.0A power supply) is included with the TCAMCS can be plugged into J3 on the TCCKINFM.

Relay 1: Normally Open; Contact Rating: 0.5A @ 120VAC, 1A @ 24VDC, 5 Watts

Relay 2, 4 and 5: Normally Open; Contact Rating: 5.0A @ 120VAC, 5A @ 24VDC, 120 Watts

Relay 3: Normally Open, Normally Closed; Contact Rating: 5.0A @ 120VAC, 5A @ 24VDC, 120 Watts

Connector J2 is a 14 pin connector for relay contact connections.

Connector J4 is an RJ11 (4 conductor) connector for connection of RS485 signaling or for RS232.

Connector J5 is an RJ14 (6 conductor) connector for connection to the TCAMCS with the cable provided with the TCAMCS.

Connector J6 is provided to implement convenient current limiting functionality on a 12VDC power supply (PS12) used with TCCKAN12 Analog Clock Speaker Wire Power/Correction application.

4-position Dipswitch: The dipswitches disable/enable relays 4 and 5 OR RS232/ RS485 functionality. To use Relay 4 and Relay 5, all dipswitches must be ON. To use RS232 or RS485, all dipswitches must be off.

Fused Power Connections:
The resettable fuse allows a maximum load current of 1.85 Amps and can work with any Class 2 voltage. To reset the fuse, the short circuit or overload condition must be removed from the system and the fuse must be given ample time to cool before reconnection of the power source.
TCCKINFM also replicates the functionality of Rauland Model 2417. It can be used in conjunction with Dig. Out (serial output) to control Digital Clocks by change of voltage method.
Use of the TCCKINFM eliminates the need for other clock buffers and relays (e.g. 2418). The TCCKINFM module is packaged with a 6-pin and an 8-pin pigtail connector.

Mounting: TCCKINFM comes with 4 plastic standoffs for easy installation on any fl at surface. For quick installation the mounting holes on TCCKINFM are designed to match the stand offs on 2515.

Rauland is a Division of AMETEK, Inc.

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Architect and Engineer (A&E) Specifications available online at customerconnection.rauland.com
Specifications subject to change without notice.

Description

The TCCKINFM is designed to interface between the TCAMCS, 2515 power supply and all Rauland Secondary Clocks as well as secondary clocks from other manufacturers. When connected between secondary clocks, 2515 power supply, TCAMCS or properly equipped Telecenter systems and master clocks, the TCCKINFM supplies the clock correction signals to synchronize them to an Atomic timeserver.

The TCCKINFM is designed to be installed in the 2515 clock power supply housing. Connections to the TCCKINFM relays are normally open contacts except for Relay 3 (controlled by TCAMCS OUT1). Relay 3 provides access to the normally open and the normally closed contacts and allows independent use of both circuits (switches) of the double pole relay.

Associated Equipment

2515 – 24 VAC UL Listed Power Supply
TCAMCS – Atomic to Master Clock Synchronization Module
All Rauland Clocks

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