HOCHIKI america corporation

INSTALLATION INSTRUCTIONS FOR CLIM CURRENT LOOP INPUT MODULE

The information contained in this installation instruction is a quick reference guide. For detailed system information refer to the panel manufacturers' installation manual. This instruction is generic and will not address.

GENERAL DESCRIPTION:

This instruction applies to the 4 to 20mA Current Loop Input Module (CLIM) which is to be connected to a DCP Signaling Line Circuit (SLC). The module allows analog panel to interface or monitor sensor or detection device which transmits its output data as 4 to 20ma output current. Examples of typical applications are temperature sensor, pressure sensor, liquid level sensor and carbon monoxide transducer.

MOUNTING REQUIREMENTS:

The CLIM Current Loop Input Module is mounted as shown in Figure 3 on page 2 of this instruction.

WIRING:

NOTE: All wiring must conform to local codes, ordinances and regulations.

1) Install module wiring in accordance with the job drawings and appropriate wiring diagram (see Figure 2)
2) Secure the module to a U.L. listed electrical box (supplied by installer) as shown in Figure 3.
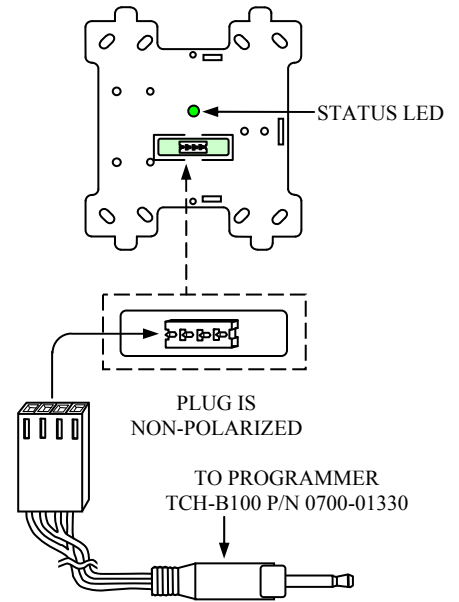3) The address must be set on the CLIM before the cover plate is attached (see Fig. 1)

STATUS LED

PLUG IS
NON-POLARIZED

TO PROGRAMMER
TCH-B100 P/N 0700-01330

FIGURE 1.

EXPLODED VIEW OF ADDRESS
PROGRAMMING PLUG AND CONNECTOR

CAUTION!
To ensure proper operation connect this module to a compatible Fire Control Panel only. Refer to panel instructions for proper connection and compatibility.

CAUTION!
If this module will be installed in an existing operation system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the module.
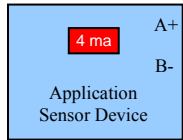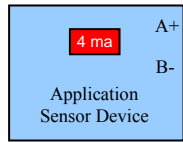
NOTE:

When installing fire alarm system devices, avoid placing devices or wiring close to potential Radio Frequency or Electro-Magnetic noise sources. Avoid running SLC circuit in the same conduit as power lines. Utilize twisted pair and shielded wire in environment where excessive noise is expected.

NOTE: An average of 6.75mA (communication current) per loop of SLC device, must be factored into the panel battery backup calculations.

SPECIFICATIONS	
SLC Applied Voltage	Maximum 39 VDC
	Nominal 33 VDC
SLC Current Consumption	Maximum 400µA Surge Current: 30mA (in 5ms), Alarm & No Input: 30mA(in 20ms)
	Nominal 400µA (Typical)
Full Scale Input Range	0 mA to +25 mA
	Normal Input Range: +4 mA to +20 mA
Input Impedance	250 Ω
Visual Indicator (status LED)	Bi-color LED - Green and Red
	Color and Mode - selected and programmed by Control Panel software
Operating Temperature Range	0°C (32°F) ~ 49°C (120°F)
Storage Temperature	-30°C (-22°F) ~ 70°C (158°F)
Max Relative Humidity	Up to 90% RH non-condensing
Environment	Indoor use only
Dimensions	4.2"W X 4.7"H X 0.85"D
Weight	Approximately 3.0 ounces

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7051 VILLAGE DRIVE, SUITE 100
BUENA PARK, CA 90621-2268

NOTE:
ENSURE CORRECT POLARITY WHEN CONNECTING THE OUTPUT FROM THE APPLICATION DEVICE TO THE CLIM MODULE INPUT.
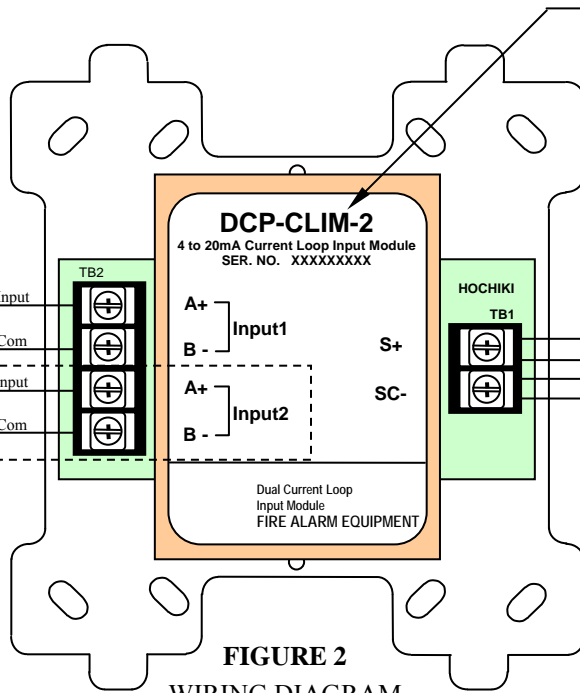
CLIM MODULE HAS 2 VERSIONS:
CLIM-1 IS SINGLE CHANNEL.
CLIM-2 IS DUAL CHANNEL
CASCADE OUTPUT
TO NEXT INTERFACE
MODULE IN THE SLC
LOOP

S+   SC-

DCP-CLIM-2
4 to 20mA Current Loop Input Module
SER. NO.   XXXXXXXXX

TB2

4 ma
A+   Output   Input
B-   Com   Com

Application
Sensor Device

4 ma
A+   Output
B-   Com

Application
Sensor Device

4-20mA Output Unit

Input
Com

A+
B -   Input1

A+
B -   Input2

HOCHIKI
TB1

S+

SC-

Dual Current Loop
Input Module
FIRE ALARM EQUIPMENT

S+
SC-

COMPATIBLE
FIRE CONTROL
PANEL

FIGURE 2
WIRING DIAGRAM

ALL WIRING SHOWN IS SUPERVISED
AND INHERENTLY POWER LIMITED.

NOTE:
THIS SECOND INPUT IS AVAILABLE FOR DUAL CHANNEL CLIM-2 ONLY. CLIM-1 IS A SINGLE CHANNEL VERSION AND IT HAS ONLY INPUT 1.

TB2 FOR CLIM-1 HAS ONLY TWO CONNECTING TERMINALS.

INITIATING DEVICE (IDC) – NFPA STYLE B (FOR WIRING LENGTH REFER TO TABLE 1)

TABLE 1: WIRING LIMITATIONS

Maximum Distance Between Module and EOL Device	
14 AWG	1500 Ft.
16 AWG	900 Ft.
18 AWG	550 Ft.

STANDARD 4" SQ
ELECTRICAL BOX
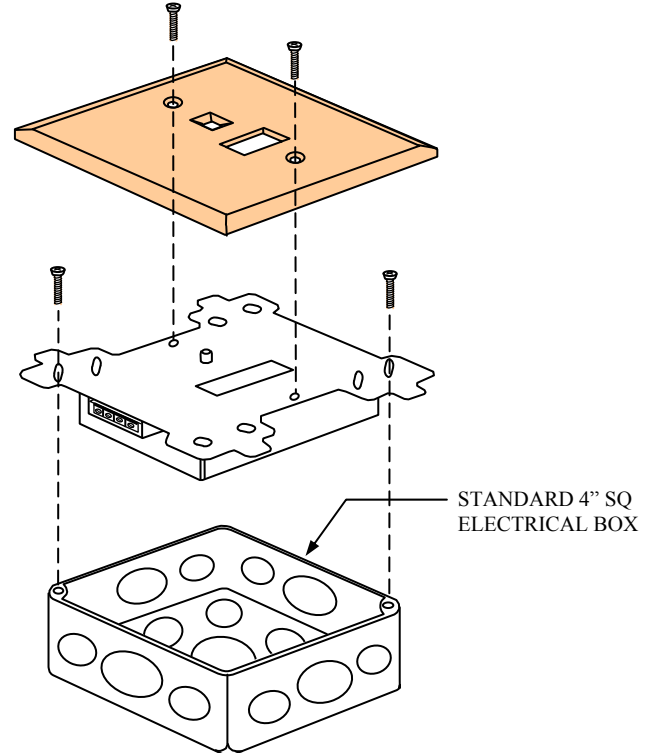
FIGURE 3
TYPICAL MOUNTING ARRANGEMENT

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DWG.# HA-06-136
(PG 2 of 2, 03/13)
PART# 1700-10290