



**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)

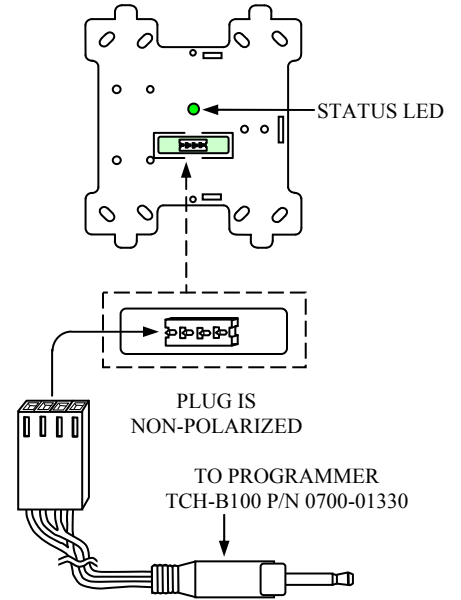


FIGURE 1.  
EXPLODED VIEW OF ADDRESS PROGRAMMING PLUG AND CONNECTOR

**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.

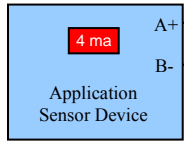
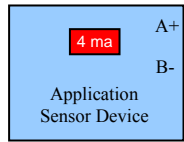
**NOTE:**

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.

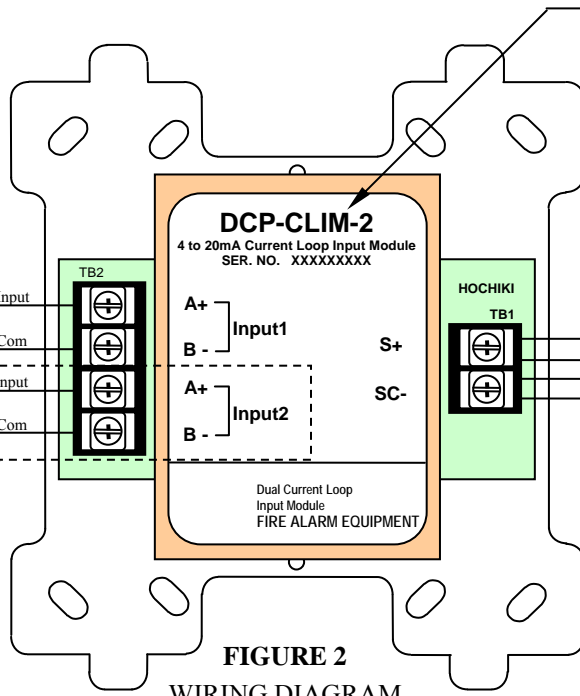
NOTE: An average of 6.75mA (communication current) per loop of SLC device, must be factored into the panel battery backup calculations.

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

NOTE:  
ENSURE CORRECT POLARITY WHEN  
CONNECTING THE OUTPUT FROM  
THE APPLICATION DEVICE TO THE  
CLIM MODULE INPUT.



4-20mA Output Unit



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

ALL WIRING SHOWN IS SUPERVISED  
AND INHERENTLY POWER LIMITED.

**FIGURE 2**  
WIRING DIAGRAM

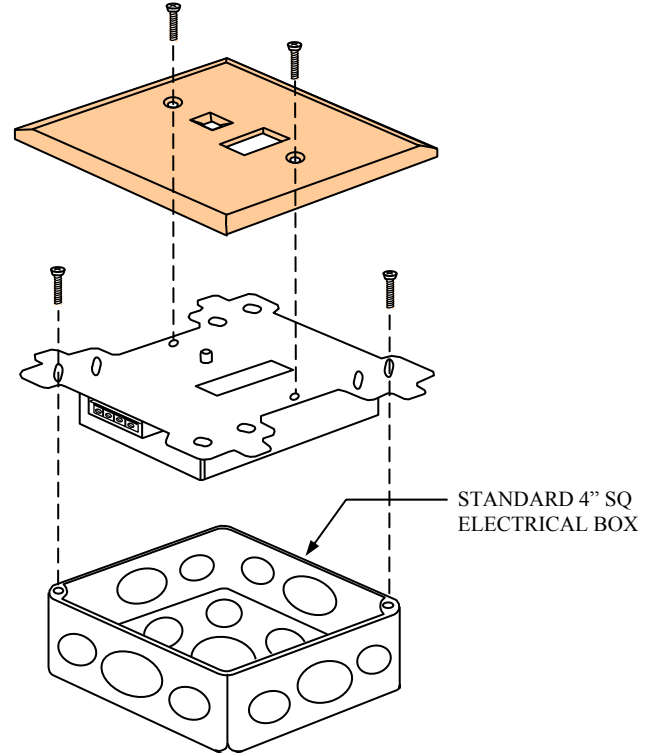
NOTE:  
THIS SECOND INPUT IS AVAILABLE  
FOR DUAL CHANNEL CLIM-2 ONLY.  
CLIM-1 IS A SINGLE CHANNEL  
VERSION AND IT HAS ONLY INPUT 1.

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.



**FIGURE 3**  
TYPICAL MOUNTING ARRANGEMENT

### One Year Limited Warranty

Hochiki America (HA) warrants its digital communication modules to be in conformance with its own plans and specifications and to be free from defects in material and workmanship under normal use and service for a period of one (1) year from date of delivery. All warranties are void and HA is not obligated to repair or replace equipment which has been repaired by others, abused, improperly installed, altered or otherwise misused or damaged or exposed to conditions outside the products specifications in any way. HA will not be responsible for any dismantling, reassembling or re-installation charges. Please contact HA's Sales department for proper procedure for claims and return of merchandise. This warranty is in lieu of all other warranties expressed or implied.

HOCHIKI AMERICA CORPORATION  
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