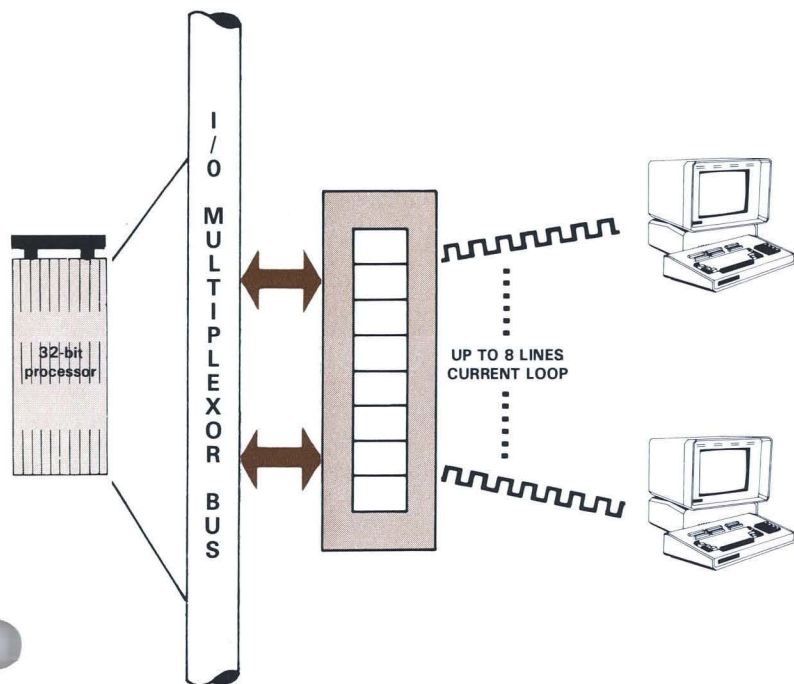


# Current Loop Communication Multiplexor (CLCM)



## PRODUCT DESCRIPTION

The Current Loop Communication Multiplexor (CLCM) provides an interface between the standard multiplexor bus and local Perkin-Elmer terminals using a current loop connection. The CLCM provides eight 4-wire asynchronous communication lines, each with a current loop interface which is capable of driving up to 5,000 feet of cable. Using state-of-the-art technology, the CLCM provides:

- Lower cost per line
- Lower power consumption per line
- High Reliability

The CLCM allows maximum flexibility by providing program control over those functions most subject to variation and change, such as baud rate and character format.

## FEATURES

- Provides a current loop interface capable of driving up to 5,000 feet of cable
- Offers baud rates from 50 to 19,200
- Full-duplex operation
- Plugs into any I/O slot on the Multiplexor Bus
- Software compatible with the current loop version of The Perkin-Elmer 2 line COMM MUX

## OPERATIONAL CHARACTERISTICS

The CLCM provides eight asynchronous communications lines with a current loop interface. Each line interfaces to the Multiplexor Bus of any 32-bit Perkin-Elmer processor and provides full-duplex operation to local Model 550 and 1251 Perkin-Elmer terminals. Sixteen baud rates from 50 to 19,200 are available with selected groups of up to four baud rates programmable at any one time. The maximum baud rate at which reliable operation is guaranteed is a function of the cable length and is shown in the following chart.

Cable length	Maximum baud rate
0-762.5m (0-2500 feet)	9600 baud
762.5-1220m (2500-4000 feet)	7200 baud
1220-1525m (4000-5000 feet)	4800 baud

Data transfers between the terminal and CLCM are bit serial at a program-controlled baud rate. The program controls character size (5, 6, 7, or 8 bits), parity (odd, even or one), and stop bits (1 or 2) on a per line basis.

## SPECIFICATIONS

Character Format (Programmable) 5, 6, 7, or 8 data bits  
Parity (Programmable) - odd, even or none  
Stops bits (Programmable) - 1 or 2

## ELECTRICAL REQUIREMENTS

5 volts DC @ 5.0 amperes

## OPERATING ENVIRONMENTS

0 to 50° C  
10-90% relative humidity (no condensation)

## WEIGHT

1.5 kg (3 pounds)

## DIMENSIONS

381 mm x 381 mm (15 in. x 15 in.)

## PRODUCT NUMBERS

M47-110	Current Loop Communications Multiplexor (CLCM)
M47-111	External Cable Assembly. Connects the I/O distribution panel to the Current Loop adaptor of a Perkin-Elmer terminal. Length: 30.5 meters (100 feet).
M47-112	Same as M47-111. 76.2 meters (250 feet)
M47-113	Same as M47-111. 152.4 meters (500 feet)
M47-114	Same as M47-111. 304.8 meters (1000 feet)
M47-115	Same as M47-111. 762.0 meters (2500 feet)
M47-116	Same as M47-111. 1524.0 meters (5000 feet)

## RELATED DOCUMENTATION

29-732	CLCM Programming Manual
47-006	CLCM Maintenance Manual

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The information contained herein is intended to be a general description and is subject to change with product enhancement.

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