

SIEMENS

Expansion Plug For Siemens Multiplexer Translator

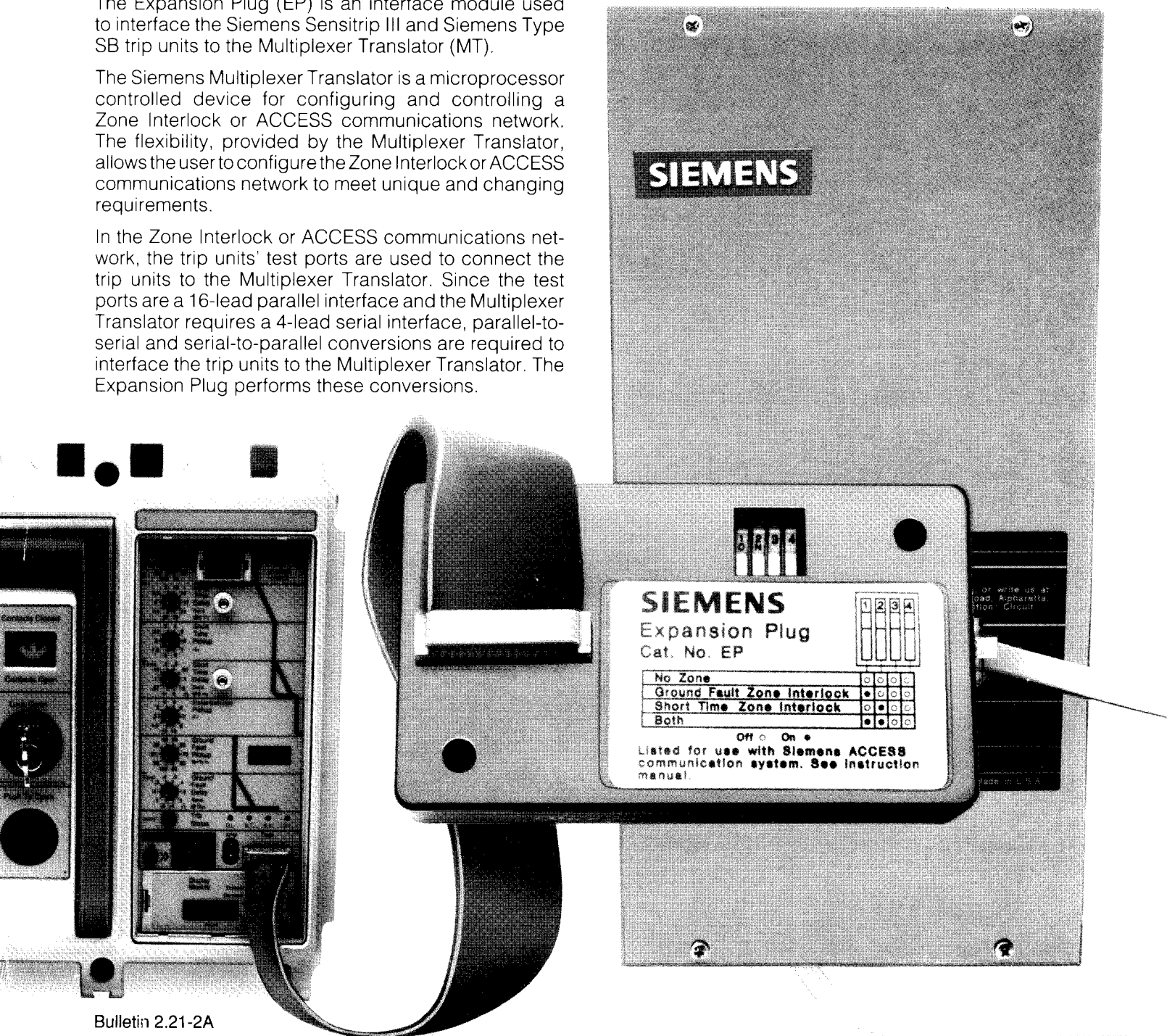
Information and Instruction Sheet

Introduction

The Expansion Plug (EP) is an interface module used to interface the Siemens Sensitrip III and Siemens Type SB trip units to the Multiplexer Translator (MT).

The Siemens Multiplexer Translator is a microprocessor controlled device for configuring and controlling a Zone Interlock or ACCESS communications network. The flexibility, provided by the Multiplexer Translator, allows the user to configure the Zone Interlock or ACCESS communications network to meet unique and changing requirements.

In the Zone Interlock or ACCESS communications network, the trip units' test ports are used to connect the trip units to the Multiplexer Translator. Since the test ports are a 16-lead parallel interface and the Multiplexer Translator requires a 4-lead serial interface, parallel-to-serial and serial-to-parallel conversions are required to interface the trip units to the Multiplexer Translator. The Expansion Plug performs these conversions.



Installation Instructions

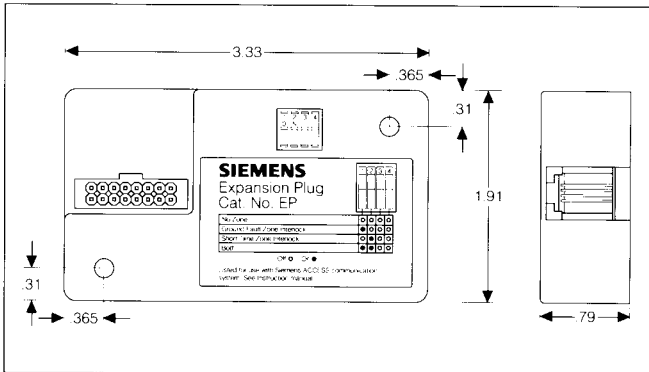
Installing the Expansion Plugs

With the exception of circuit breakers using Static Trip III type trip units, each circuit breaker in the network receives an EP as an interface to the MT.

The EP may be physically attached to any flat surface very close to the circuit breaker. The maximum length of the cable to connect the EP to the circuit breaker's trip unit is eighteen (18) inches. Two holes in the EP, which will accommodate #8 screws, are used to secure the EP to the mounting surface. The relative locations of the mounting holes are illustrated in the outline drawing.

Locate the positions on the mounting surface for the screws. Prepare the surface to accept the screws.

Attach the EP's to the mounting surfaces. Tighten the screws securely.

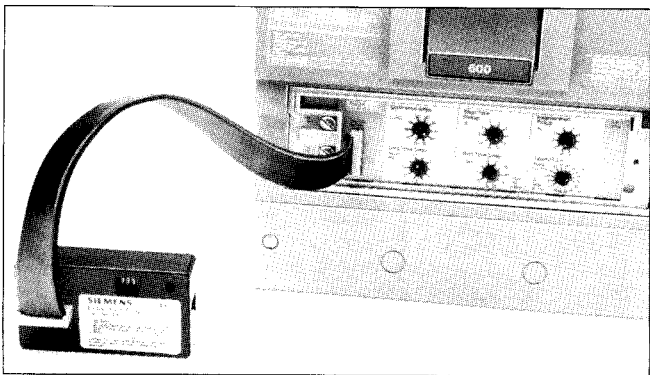


Expansion Plug Outline Drawing

Connecting the Circuit Breakers to the Multiplexer Translator

Expansion Plug to Circuit Breaker – The cable to connect an EP to a circuit breaker is a 16-wire ribbon cable with identical connectors at each end. See Ordering Information for available cable lengths.

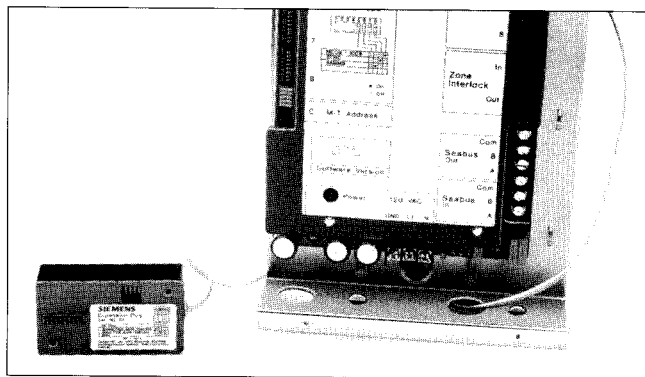
Connect the EP's to the trip units' test ports with the ribbon cables.



Expansion Plug to Trip Unit Cable

Expansion Plugs to Multiplexer Translator – The cable to connect an EP to an MT is a standard flat 4-wire telephone cable with a male RJ11 connector at each end. See Ordering Information for available cable lengths.

Connect one end of the cable to the EP. Run the other end of the cable through the cable access hole in the bottom of the MT and plug it into any one of the receptacles numbered 1 through 8 on the right side of the MT. Record the "Device Number" used for the circuit breaker. This number and the MT address define the electrical installation location of the circuit breaker in the network. Continue the process until all EP's have been connected to the MT. If the network contains more than eight circuit breakers, multiple MT's are required. In this case, any EP may be connected to any MT in the network.

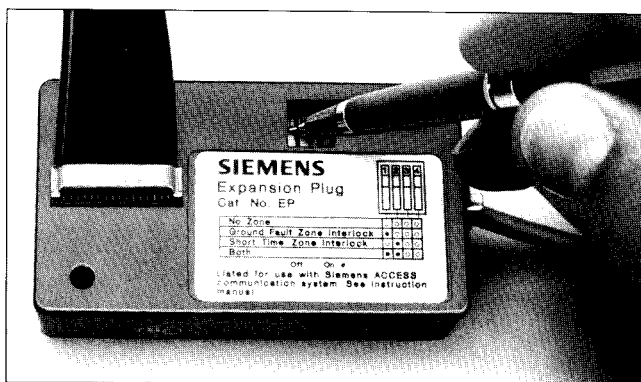


Multiplexer Translator to Expansion Plug and Multiplexer Translator to Multiplexer Translator Cable

Setting the Expansion Plug Switches

The EP's have a dip switch with 4 switches which must be set to the desired Zone Interlocking of the individual circuit breakers. The required "On"/"Off" positions for the four switches to select No Zone, Ground Fault Zone Interlock, Short Time Zone Interlock, or both Ground Fault and Short Time Zone Interlock are illustrated on the EP label. Depressing the numbered sides of the individual switches sets the switches to "On."

Set the switches of each EP in the network to the desired Zone Interlocking for the individual circuit breakers.



Setting the Expansion Plug Switches