

## Service & Sales Instructions: MultiFlex-Plus (+) Board On Einstein/E2 Network

### Overview

The MultiFlex-plus board contains a replacement RS-485 transceiver chip that presents less of a load on the network than a non-plus board. This increases the maximum number of devices that can be placed on the network, **but not** the number of board types an Einstein controller can communicate with.

The MultiFlex-plus board now accounts for only 1/8 the load of a non-plus board with 32 total devices on the network (one Einstein controller + 31 boards). This new conversion allows for the placement of 256 devices on the network (one Einstein controller + 255 boards). The number of boards an Einstein controller can support is increased from 31 up to 255 using MultiFlex-plus boards only. In other words, the number of I/O net devices are no longer restricted by the I/O net 31-node limitation.

***NOTE: The MultiFlex-plus board replaces the old-style MultiFlex boards and is currently being shipped.***

### Board Designation

Plus boards are always identified with a plus (+) sign that appears on the plastic insulating cover on the top of the board, after the board name.

### Board Calculations

With  $X$  as the number of plus boards and  $Y$  as the number of non-plus boards, use the following equation to ensure that the number of devices on your network has not exceeded the maximum load limitation of the network. For example, if the total number of devices is less than 256, the maximum load limitation has not been exceeded.

$$X + (Y \cdot 8) < 256$$