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2.4 MODULE HOUSINGS

The H819 or H827 Module Housings contain all 884 system components. The housings provide electrical connections between 884 system components, system grounding, and electromagnetic and radio frequency interference shielding.

The H819 Module Housing measures approximately 19 inches in width. It mounts in a standard 19 inch EIA rack, or on the rear panel of a 10 inch (minimum depth) NEMA enclosure. The H819 housing comes equipped with interchangeable side plates, which enable rack mounting.

The H827 Module Housing measures approximately 27 inches in width. Its design is specifically for rear panel mounting in a 10 inch (minimum depth) NEMA enclosure.

Both, H819 and H827, housings come in three bus lengths (-000, -003, -007) and two classifications (primary and secondary). The bus length indicates the number of Systembus connectors per housing; -000 is for I/O modules only; -003 has three Systembus connectors; and -007 has seven Systembus connectors. The controller module, controller option modules, and the power supply module communicate by way of the Systembus connectors.

The housing classification (primary or secondary) indicates the module types the housing can accommodate and the position of the housing within the channel configuration. The primary housing is first in the channel, and it can accommodate the controller module, power supply module, controller option modules, and I/O modules. The secondary housing accommodates I/O modules and maintains the second, third, fourth or fifth position in the channel. Table 2-3 lists the module housing options available to the 884 Programmable Control System.

A typical 884 Programmable Controller system includes one primary housing (-003 or -007), which contains the P800 Power Supply, 884A Controller Module, Controller Options, and I/O Modules. The primary housing can connect to one or a series of secondary housings (-000) by way of the signal (W801) and power cables (W802). The secondary housing(s) contains I/O modules.

Each secondary housing requires separate signal and power cables for interconnection. The length of each cable connecting the primary housing and its immediate secondary housing must not exceed six feet; the sum of the lengths for each cable type (power and signal) in a 884 Programmable Controller system must not exceed twenty feet. Power and signal cables are available in one, six, and twelve foot lengths. Refer to Section 3, System Configuration for a description of configuration guidelines.

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Table 2-3. Module Housing Options

Type	Part Number	Nominal Width	Quantity of Module Type Accepted			
			Power Supply	884A Controller	Controller Options	800 Series I/O Modules
Secondary	AS-H819-000	19 inch	1	0	0	7
Primary	AS-H819-003	19 inch	1	1	0	4
Primary	AS-H819-007	19 inch	1	1	4*	4
Secondary	AS-H827-000	27 inch	1	0	0	11
Primary	AS-H827-003	27 inch	1	1	0	8
Primary	AS-H827-007	27 inch	1	1	4*	8

*Controller options decrease the number of I/O modules that can be housed.

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