

PSS9001/9002 Memory Save and Autorestart

PSS9001/9002 Memory Save and Autorestart is an optional device available for Level 6 users which provides for the retention of up to 131,072 bytes (64K words) of memory for a two hour period in the event of a power failure or fault. It provides the necessary voltage to maintain the contents of the Level 6 memory as well as to charge the batteries when ac is available on input. In the event of a normal operator system power down, the memory contents are safely retained until the system is manually powered up again.

FEATURES

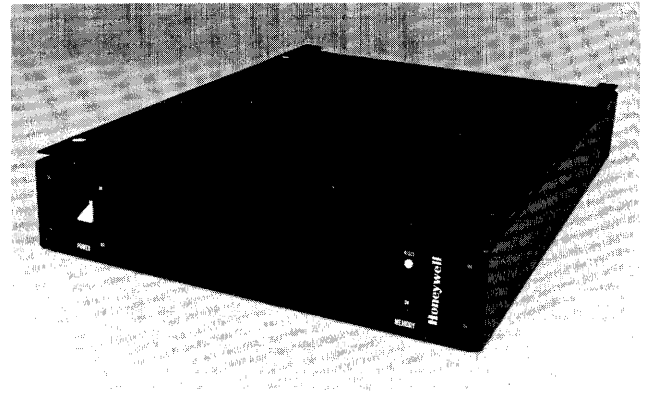
- Supplies power to support 64K words of MOS memory during normal computer operation
- Maintains up to 64K words of MOS memory contents during power outages of up to two hours
- Retains memory contents when system is manually powered down, not in active use, or is under repair as long as ac power is not removed from the device
- Available in either tabletop (PSS9001) or standard rackmountable (PSS9002) versions

OPERATION

The Memory Save and Autorestart device supplies power to memory at all times and as long as there is no line disruption, the memory contents will be retained. The device is plugged into a standard 120 volt receptacle and also has an outlet for connection to the central processor.

An on/off switch enables the selection of one of two states. When placed in the off position, memory contents are not protectable. When placed in the on position, however, CP memory contents are protected and retainable for up to two hours in the event of a power failure or indefinitely when the CP is manually powered down.

The Autorestart feature provides for the generation of an interrupt upon the detection of an impending power failure. The interrupt handler within the user's program has 1.5 ms in which to perform a save status operation storing the restart informa-



tion considered essential, e.g., registers and memory locations. Following the power failure, operations will be automatically resumed with the first instruction at memory location zero, which should contain a branch to a software routine that will perform the restart operations.

The device also contains a "Memory On" indicator (LED) which when illuminated indicates the proper functionality of the device and its associated CP memory. Loss of ac power for longer than two hours or a malfunction in the device causes the power supply to be turned off and the "Memory On" indicator to be extinguished. A manual reset is then necessary to illuminate the indicator again, thereby restoring power and enabling a restart operation.

SPECIFICATIONS

INPUT VOLTAGE: All output will remain in regulation with the following input voltages: 100 to 132V RMS at 60Hz. The battery operated power supply will maintain its output for power failures of up to two hours.

INPUT OVERLOAD PROTECTION: The input line is protected from overloads by a 2 amp fuse in the 120V units.

EQUIPMENT GROUND: Provisions are included for the connection of an equipment ground to the chassis.

CONVENIENCE OUTLETS: Output of power source is connected to CP memory by a plug-in cable. A plug for connection to a 120 Vac receptacle is also provided.

COOLING: Cooling is provided by an ac 60Hz fan for normal operation only. No cooling in battery mode.

PHYSICAL DIMENSIONS:

Height – 3.20 in. (8.13 cm)

Width – 17.00 in. (43.18 cm)

Depth – 17.00 in. (43.18 cm)

Weight – 36 lb (16.4 kg)

RIPPLE AND NOISE: The ripple and noise of the +5V/12V output is less than 200mV/300mV peak-to-peak when measured at the end of a two foot long cable terminated at its load.

STORAGE TEMPERATURE: +20°C (68°F)

Specifications may change as design improvements are introduced.

Honeywell

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