

System Management Controls for AGV/AGC Systems

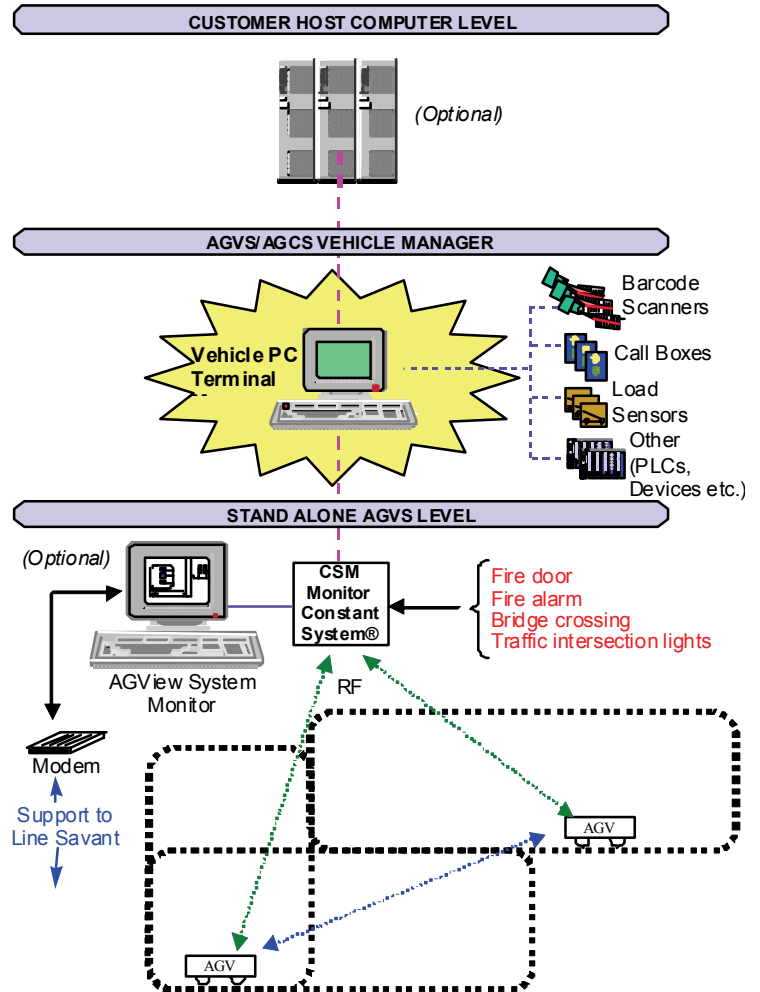
- Remote Dispatching of AGVs
- Pentium Class PC Hardware
- Interfaces With The Constant System Monitor (CSM)

The Vehicle Manager (VM) hardware device is a PC based computer. It is used in systems where remote AGV call and dispatch functions are required.

The Vehicle Manager is a data collection and processing system utilized to provide efficient, remote dispatching of the AGV fleet. The Vehicle Manager gathers data on material movement and then coordinates and supervises AGV task assignments in response to the system demand.

The Vehicle Manager receives data from input devices such as load presence sensors, data entry terminals, scanners or other devices (PLC, etc.). In addition, the Vehicle Manager monitors individual AGV status such as location, condition, state, etc. for all AGVs operating in the network via the Constant System Monitor (CSM).

With these inputs, the Vehicle Manager processes the available information and coordinates the AGV task assignments based on the given requirements of the system. A particular AGV is selected for a task assignment based on a "look for work" strategy. Different "look for work" algorithms can be developed based on system requirements and priorities. The AGV dispatch command mission is communicated to the AGV through the CSM.



Product Features

- Receives data from load sensors, data entry terminals, and/or other devices
- Receives location and status of all AGVs from the CSM
- Selects AGV for task based on a "look for work" strategy
- Coordinates requirements of load movement with AGVs available to move loads
- Communicates AGV dispatch command through the CSM
- Remote access via modem
- Modem is available for diagnostic phone line to Savant Automation in Grand Rapids, MI

Options

- Host interface
- Interface to PLCs
- Industrial enclosure
- Log / report printer
- Load destination data entry terminals
- Load sensor devices
- Call/dispatch panels or boxes
- Bar code readers

Specifications

Standard

Hardware Configuration

- Pentium Class PC

Error Messages

- In the event of a fault condition, the CSM will communicate a message to the VM. The proper error recovery routine is then followed to return the system to normal operation.

Optional

- Host interface (Socket Space TCP/IP)

TYPICAL VEHICLE MANAGER LOGIC

