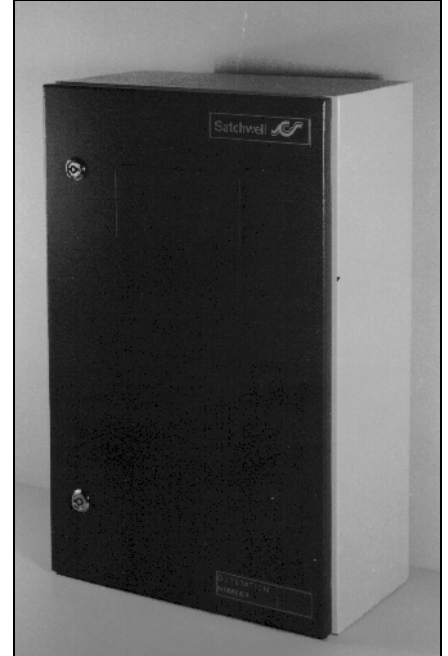


BUILDING AUTOMATION SYSTEM SIEMENS PLC INTERFACE

The Siemens PLC interface option allows integration of the BAS with a Siemens Programmable logic Controller (see specifications for details).

The BAS does not have control over the Siemens PLC but monitors and displays various points and alarms in the PLC. In an example configuration a Siemens PLC controls an aircraft loading bridge and the BAS monitors the position of the bridge ensuring efficient and correct operation. In the event of a loading bridge failure the BAS displays an alarm advising the user. Occurrence of alarms and other events can be displayed to the user in a variety of ways or can trigger control action on other equipment. Events will be indicated by the behaviour of the alarm banner on the Terminal.



INTERFACE FEATURES

- Maps Siemens PLC Points as BAS points. Mapping uses standard BAS programmable points to indicate fault conditions and clearances.
- Allows current state, Siemens PLC failure and equipment alarms to be reported as BAS points.
- Allows BAS to select and report Siemens PLC system errors.
- Allows mapped points to have alarm limits in the same way as standard BAS point types.

OTHER FEATURES

- Provides, through BAS active graphics, a picture of the installation showing alarm states etc. This can be mixed with other BAS information on the graphics.
- Interfaces to Siemens PLC at a high level whilst still retaining the integrity of the Siemens PLC system. Failure of one system will not affect the other.
- Offers considerable system enhancements through the extensive well proven features of BAS.
- Reports alarms intelligently based on total system activities.
- Logs points using the Satchwell Logging Manager.
- Provides interaction between Siemens PLC and other BMS points. This can be used as part of an overall building control strategy across other third party interfaces.

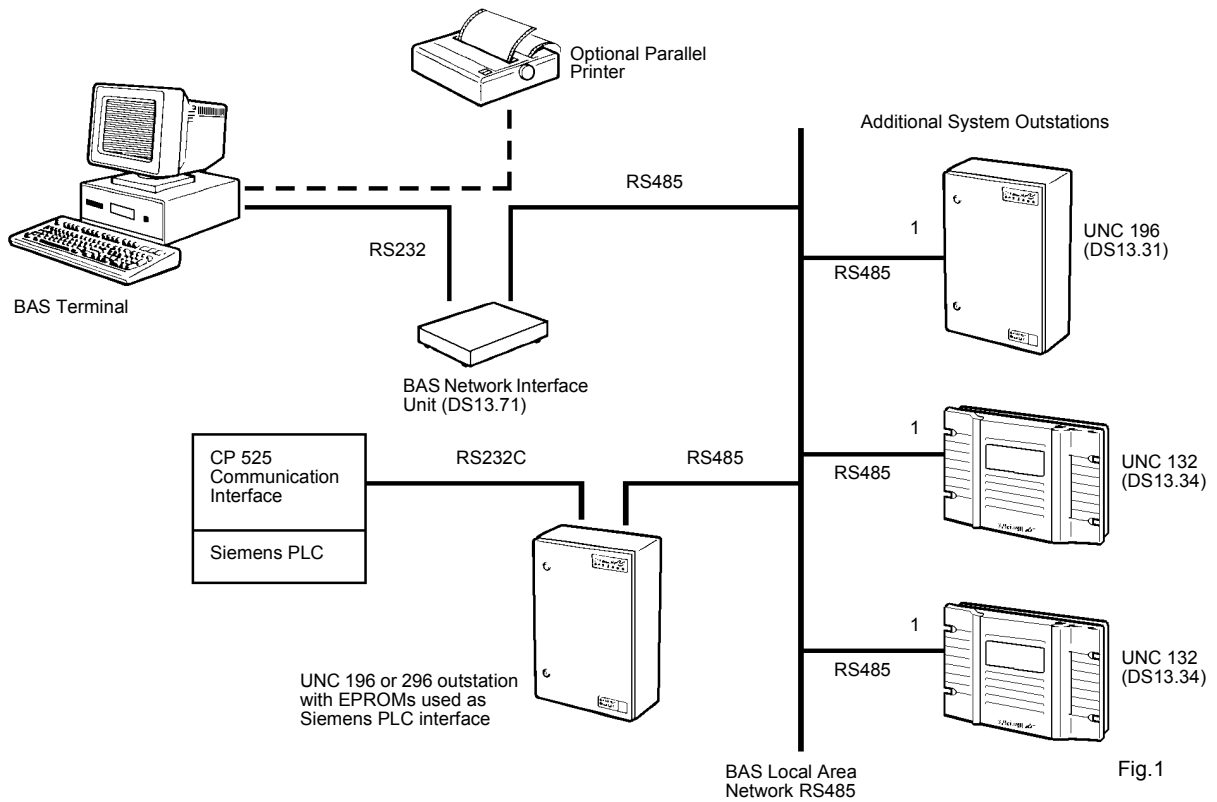


SPECIFICATIONS

Type:	UNC 196 or 296 fitted with a Siemens PLC Interface communications board EPROMs (see below) 579-1-103 - Siemens PLC Interface EPROM 878-1-762 - Siemens PLC Interface Reference manual
Power Supply:	220V (-15%) to 240V (+10%), 50Hz (-10%) to 60Hz (+10%)
Consumption:	0.1A max @ 240V 50Hz
Heat Dissipation:	24W max, 10W typical
* Power Failure Reserve:	Nickel Cadmium rechargeable (continuously trickle charged) battery giving a typical 1.5 hour power failure back-up. An optional battery provides a typical 18 hour power failure back-up (578-3-367). Full monitoring and communications are maintained during battery operation. Typical 30 day memory retention at the end of normal battery reserve. Battery back-up times are typical and assume a fully charged battery that is in good condition.
Ambient Temperature Limits:	Operating: 0 to 50°C*. Storage & Transit: -10° to 55°C.
Relative Humidity Limits:	Storage: 5 to 95% rh non-condensing. Operating: 10 to 90% rh non-condensing
CPU Board:	Microprocessor: 80C86, 16-bit running at 8MHz RAM: to 128k bytes EPROM: to 512k bytes – Order separately
Communications Board:	Microprocessor: 80C86, 16-bit running at 8MHz RAM: to 64k bytes EPROM: to 512k bytes – Order separately EEPROM: 8k bytes (allows permanent storage of site configuration data and telephone numbers if applicable) Ports: 1 – RS232 1 – RS485
Maximum Number of Points:	As UNC 196/296
Interface Hardware:	UNC 196/296 with appropriate EPROMs fitted
Interface Software:	Siemens PLC interface EPROMs - to be fitted to the UNC communications board
Interface Hardware Supported:	Siemens PLC - one required Siemens CP 525 Communications interface - one required

* To maintain efficient operation of the battery, the outstation should not normally be operated for long periods outside the 10°C to 40°C range.

TYPICAL SYSTEM DIAGRAM



BAS BUILDING MANAGEMENT SYSTEM

The BAS Building Management System boasts an extensive and impressive range of features dedicated to efficient and cost effective control of building services.

A range of points, configured by the user and stored at local interfaces, provide the means to monitor the Siemens PLC. Alarm reporting ensures that efficient operation is maintained. Data is collected and stored using standard BAS applications, to help monitor the system.

INSTALLATION AND COMMISSIONING

Installation of the Siemens PLC interface should be carried out by a competent Satchwell engineer or an approved Satchwell Agent.

The interface should be commissioned as part of the BAS system.

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CAUTION

- **The Siemens PLC interface is a mains operated device. Local wiring regulations and usual safety precautions must be observed. Always use a good verified earth connection.**
- **The Siemens PLC interface Option should be installed and commissioned by a competent Satchwell engineer or an approved Satchwell agent.**
- **This product contains a Nickel Cadmium battery which is completely safe whilst in normal operation. Batteries must be disposed of in an authorised landfill site.**
- It is possible that this publication may contain reference to, or information about, Satchwell products (hardware and software), programming or services that are not announced in your country. Such references or information should not be construed to mean that Satchwell intend to announce such products, programming or services in your country.
- Design and performance of Satchwell equipment is subject to continual improvement and therefore liable to alteration without notice.
- Information is given for guidance only and Satchwell do not accept responsibility for the selection or installation of its products unless information has been given by the company, in writing, relating to a specific application.
- A periodic check of the BAS Management System is recommended. Please contact your local Satchwell Service Office for details.