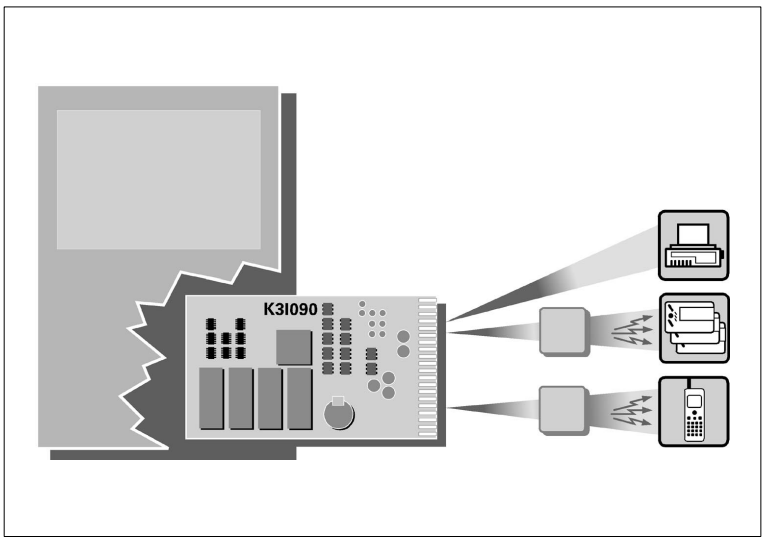
SIEMENS



Cerberus®

Paging Interface Card K3I090

- **The transmission of system messages for alarm purposes via:**
  - **Paging system**
  - **Alarm server**
  - **Telephone switchboard**
- **Application**
  - **CS11 control units**
  - **Other Cerberus systems**

The paging interface card analyses system messages at an RS-232 control unit printer output for pre-defined character strings.

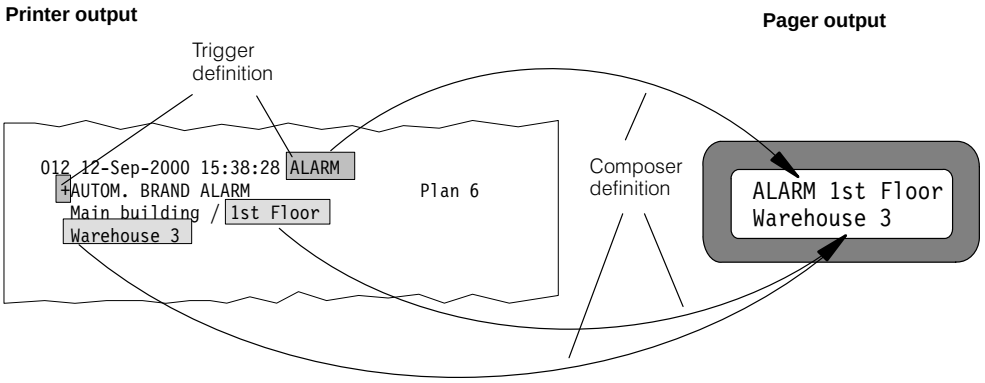
If a match is found with a character string, or a combination of several character strings, an alarm is actuated via the connected transmission system.

The paging interface card supports the RS-232, RS-485 and RS-422 interfaces for data transmission to the transmission system. Data transmission is based on protocol ESPA 4.4.4.

Function

The configuration of the interface card is made with so-called rules. These rules contain, on the one hand, the pre-defined character strings as the basis for the analysis of the print data.
Another aspect of the rules is the definition of text display. The text for pager display can be composed from sections of text from the printer message and/or be freely defined.
For the alarm organization, the individual pagers must be defined within the paging system and can be formed into groups according to the specifications.

The following example shows firstly the procedure when the pre-defined character strings 'ALARM' and the character '+' for a rule match the printer message and secondly how the pager display can be composed:



The three text sections 'Alarm', '1st floor' and 'Warehouse 3' are imported and used to compose the pager display.

The optional printer is connected to the paging interface card.
For the control unit and the printer the paging interface card is "invisible".

PageTool Software

Programming (configuration) is carried out using the PageTool Software for Windows.
The configuration is created independently of the paging interface card and is stored in a configuration data file.
The description for programming the card is integrated in the software as direct online help.

Protocol

ESPA 4.4.4
The ESPA "European Selective Paging Manufacturers' Association" was founded in 1972 by the leading manufacturers of paging systems.

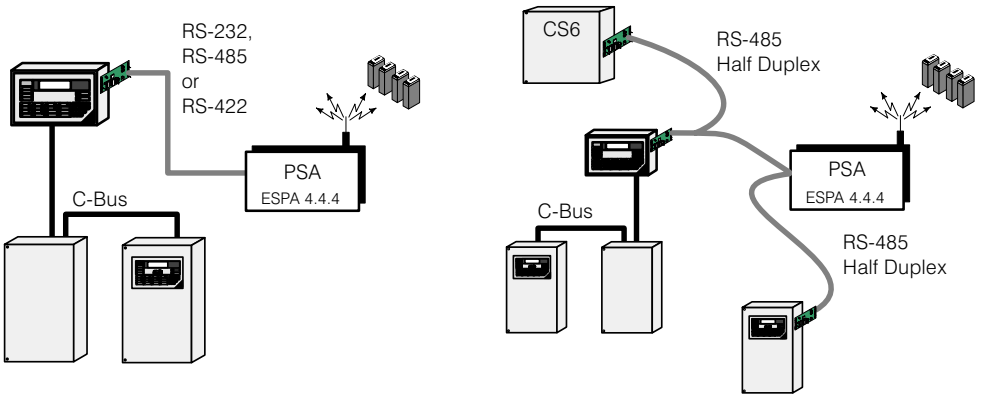
The protocol specification is available in the publication ESPA 4.4.4, "Serial Data Interface For Paging Equipment" (issued 1984).

Application

The K3I090 paging interface card can be used in the following systems:

- Control unit CC114x or CI114x
- Control unit CI1145
- Control terminal CT114x
- Control unit CS1110/15
- Control unit CC620, Intrusion

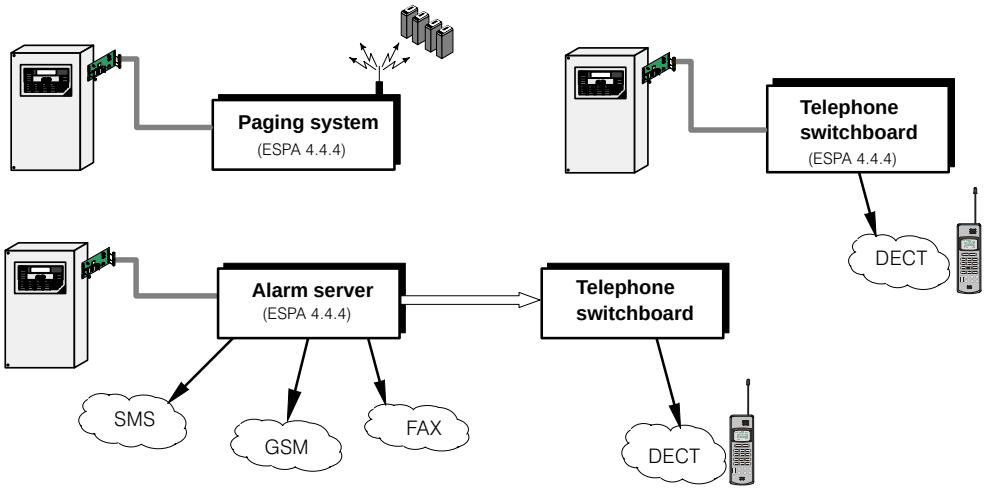
K3I090	Transmission system	Possible?
several	1	YES
1	several	NO



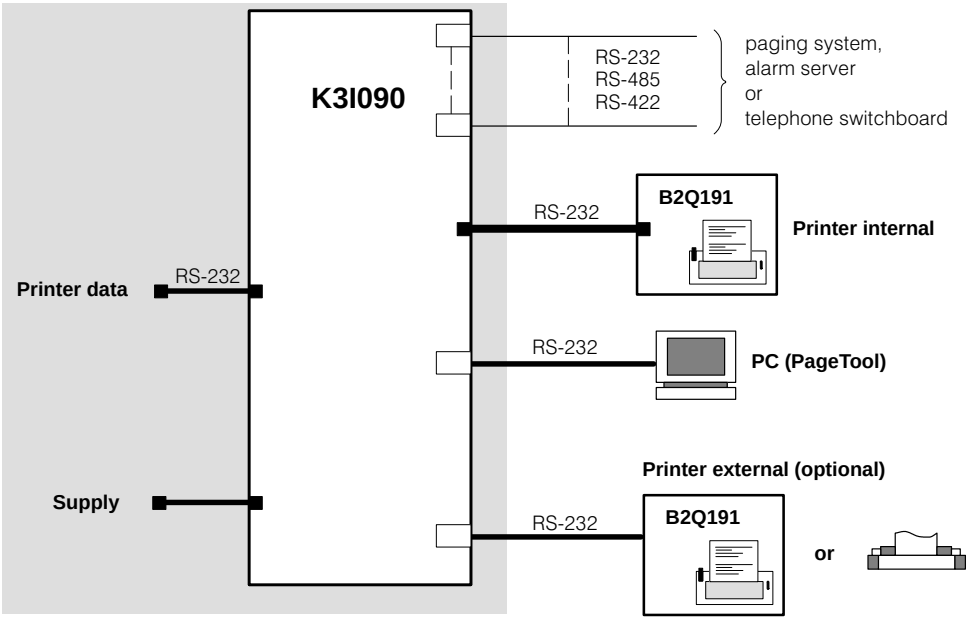
Communication is based on the master/slave principle. The network consists of a master and one or more slaves.
In order that communication channels are monitored and that a message is sent to the control unit in the event of malfunction, the paging interface card must be defined as master.
The transmission system as well as the paging interface cards in other systems are configured as slaves.
Up to 8 slaves can be configured.
If a multi-point network is set up (number of slaves > 1), the RS-485 Half Duplex must be used.

Alarm examples

In addition to paging systems, so-called alarm servers offering a wider range of functions are available on the market. Often telephone switchboards even contain paging systems.



Block diagram



Technical data

Interfaces	
– To transmission system	RS-232, RS-485 and RS-422
– Protocol for transmission system	ESPA 4.4.4
– Data input (printer data)	RS-232, TTL-level or insulated
– Printer output	RS-232, TTL-level or insulated
– Configuration PC (download/upload)	RS-232, TTL-level or insulated
Operating voltage	9....30VDC
Operating current	40mA/30V bis 130mA/9V
Transmission rate	max 9600 Baud
Card format	100mm x 200mm

Details for ordering

Type	Part no	Designation	Weight
K3I090	510820	Paging interface card	0,150kg
Documentation	e1669	Technical description	
Mounting accessories		According to application (see documentation)	
PageTool		Available on the OSS (Software Tool Library)	
Publication ESPA 4.4.4		Available on the OSS (Software Tool Library)	