

# PERTRONIC INDUSTRIES LTD

## DATASHEET

### Text Interface for Printer, Pager, Nurse Call Pager, and Special Purposes SPIB-NCPP



*ASCII text interface for stand-alone Pertronic F220 and F100A fire panels*  
*Automatically exports selected fire panel event information as serial text*  
*Readily customisable message format*  
*Compatible with a large range of text-based messaging and monitoring systems*  
*PC configurable via USB cable*

## Overview

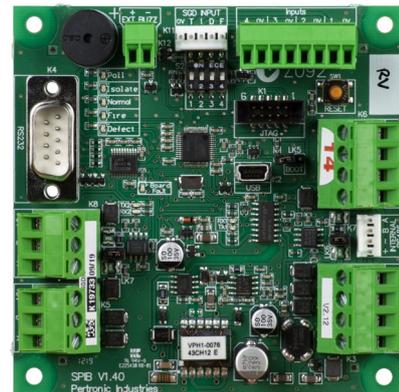
The **Pertronic Text Interface (SPIB-NCPP)** exports selected fire system events as serial ASCII text, suitable for printers, paging systems, nurse-call paging systems, or other text-based systems.

The interface connects to the RS-485 Mimic Bus of any Pertronic analogue addressable fire panel (see note on page 2). It examines fire panel event data and converts selected event types into text. Any event that appears on the fire panel's LCD display can be converted into text.

The output message format is defined using a template. The template specifies the format of event messages, and is readily customised using a personal computer.

Special escape codes act as place-holders for event-specific information such as the event type or event source. This information can be formatted to suit the requirements of the target system, whether it recognises free-format, fixed-width or character-delimited text.

The template can include literal text. This includes ASCII formatting characters such as tabs, form feeds, and carriage returns.



*Pertronic ASCII Text Interface for Printer, Pager, Nurse Call Pager, & Special Purposes SPIB-NCPP*

The output is transmitted via RS-232 or RS-485. The data rate is configurable from 300 bit/s to 230.4 kbit/s. A galvanic isolation system in the interface isolates the fire alarm control panel's RS-485 Mimic Bus from all other connections to the interface.

The Pertronic Text Interface can be mounted inside a fire panel, or at a remote location.

## Features

- » Recommended for stand-alone Pertronic F220 and F100A fire alarm control panels (see note below)
- » Provides all data accessible via the fire alarm control panel's LCD display
- » Configurable using a PC running a terminal emulation program via the USB port
- » Configurable options include
  - » RS-232 or RS-485 serial output
  - » Data rate: 300 bit/s to 230,400 bit/s
  - » Heartbeat output if no other messages are generated in a specified time
  - » Output throttling specifies a minimum time between output messages
  - » Large range of time and date formats
- » Versatile formatting capabilities allow the text output to be tailored for a large range of external systems
- » Powered from the RS-485 Mimic Bus
- » Electrically isolated from the fire alarm control panel's RS-485 Mimic Bus
- » Optional supervision of the connection and communication between the Text Interface and the alarm control panel using mimic emulation
- » On-board LEDs provide diagnostic information
- » Also compatible with the F120A fire panel RS-485 mimic bus

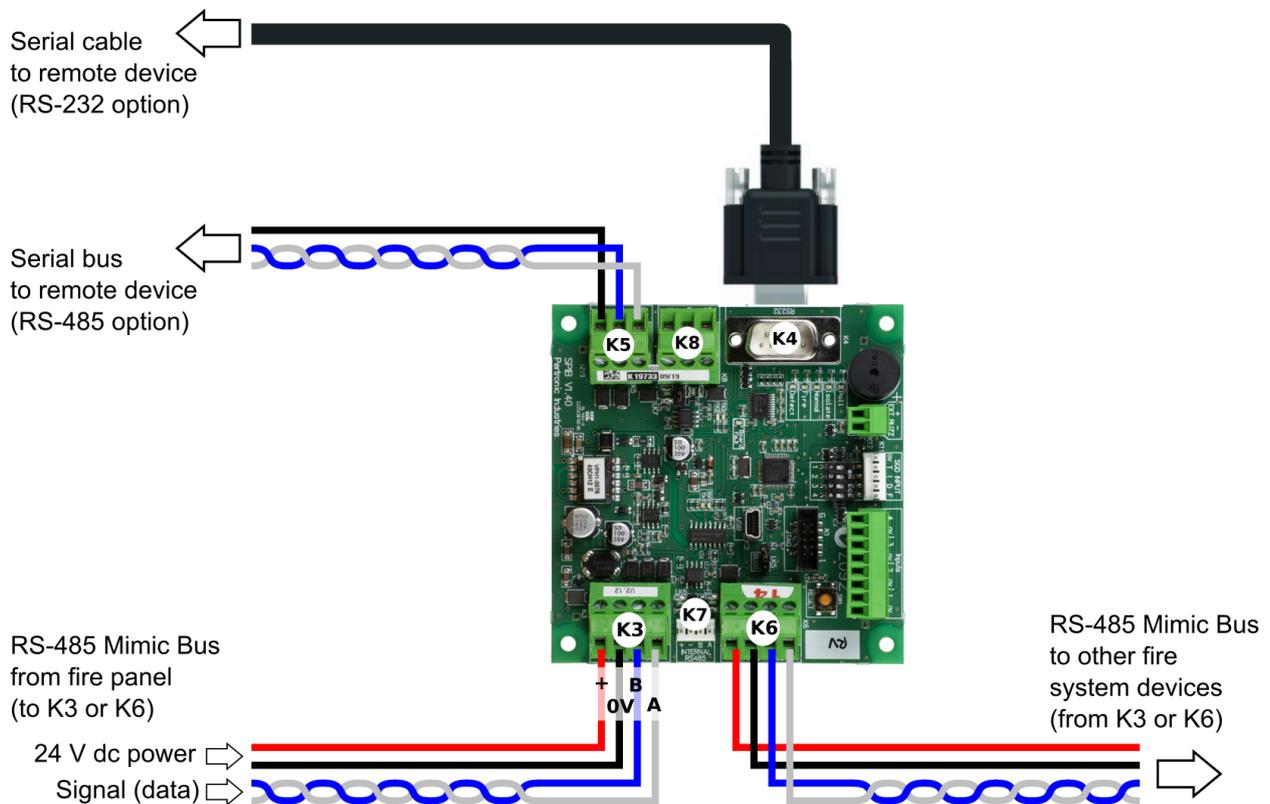
### \* NOTE

*A text interface is available for Pertronic Net2 Network Systems with Release 7 or later firmware. The Net2 Network text interface consists of a dedicated Net2 Network Card (NET2CARD) configured (in Pertronic FireUtils®) as a Printer/Pager interface. Please refer to the "Net2 Network" datasheet for more information.*

## Specification

<b>Base Hardware</b>	Pertronic SPIB board	<b>Character Set</b>	ASCII		
<b>Compatible Panel</b>	F220, F100A, F120A	<b>Panel RS-485 Bus Connection (K3, K6, K7)</b>	9600 bit/s, isolated (On F220, low speed RS-485 bus only)		
<b>Supply Voltage</b>	9.6 V dc to 30 V dc	<b>Configurable Output Options (K4, K5, K8)</b>	<b>Port Type</b>	RS-485 or RS-232	
<b>Current</b>	21 mA @ 24 Vdc (typical)		<b>Data Rate</b>	300 bit/s to 230,400 bit/s	
<b>Cable</b>	<b>Panel (K3, K6, K7)</b>		2-Core (twisted pair) Data + 2-Core Power	<b>Parity</b>	None, Even, Odd, Mark & Space
	<b>Output (K4, K5, K8)</b>		2-Core (twisted pair) Data + Common	<b>Char Length</b>	5 to 8 bits per character
<b>External Cable Termination</b>	0.5 mm <sup>2</sup> to 2.5 mm <sup>2</sup> stranded cable	<b>PCB Dimensions</b>	94H x 96.5W x 30D mm		
		<b>Weight</b>	86 g		
<b>Operating Temperature</b>	-10 °C to +50 °C	<b>Humidity</b>	10 to 95% RH, non-condensing		

## Typical Connections



## Ordering Information & Notes

Product Code	Description
SPIB-NCPP	Text (Nurse Call, Printer, Pager) Interface for Stand-Alone Fire Panels

The Pertronic F220 has two RS-485 buses. The SPIB-NCPP is compatible with the F220 Low Speed RS-485 Bus only. Connectors K9 and K11 are not used on the Pertronic Text Interface. The SPIB-NCPP is not compatible with the RS-485 buses on Pertronic NETCARD or NET2CARD network cards.

The information in this document must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all regulatory requirements.

Unless explicitly stated otherwise, this document provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

All information in this document is subject to change. Please consult Pertronic Industries or visit our web site for up to date information.

PERTRONIC® is a registered trademark of Pertronic Industries Limited.