

Operational Description

■ Introduction

The **PORTI-P40** is an extremely simple and functional panel printer. It is the ideal solution for applications which require the immediate printing of data on a paper, whether they be of an industrial, professional or laboratory nature.

Medical analyzer, Industrial instrument, Recorder, Geological analyzer, Underground analyzer, Chemical analyzer, Metallic analyzer, etc.

The general features of PORTI-P40 printer are as follows:

- ▶ Ultra small size rack mount printer.
- ▶ Very silent printing thru direct thermal printing method.
- ▶ High speed(50mm/sec)
- ▶ High resolution(203dpi : 8dots/mm).
- ▶ Easier paper loading by CLAMSHELL design.
- ▶ Support text and graphic printing.
- ▶ Serial(UART, TTL) interface
- ▶ Easier maintenance with self-diagnostics.
- ▶ Flow control : Software (XON/XOFF)
※ Hardware flow control not supported in printer.

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■ Operating Precautions

Please follow the precautions below to enjoy and maintain the full performance of the printer.

► Using the Printer

- Be careful not to drop or bump the printer on a hard surface.
- Do not install the printer in direct sunlight or such areas.

Suitable environment for the use of the printer is as follows :

◆ Operating temperature : -10°C to 40 °C

◆ Relative humidity : 10% to 90% (no condensation)

- Do not install the printer near devices that generate strong electromagnetic fields such as a copy machine.
- Do not remove or reinstall the communication cable during printing or transmission.

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Specification

Item	Specification	
Printing method	Direct thermal line printing	
Characters per line	42cpl	
Character size	Eng. : 9*24dots, 12*24dots Kor. : 16*24dots, [24*24dots]	
Resolution	203dpi, 8dots/mm	
Print width	2-inch (48mm, 384dots)	
Printing speed	50mm/sec	
Dimensions	80 * 75 * 40 mm (include PCB)	
Weight	153g (including roll paper)	
Interface	Serial(UART, TTL)	
Paper supplied	Thermal roll paper (57mm wide, 40ø)	
Barcode supplied	PDF417(2-dimension), Code128, Code39, I2/5, Code93 UPC, EAN(KAN, JAN), CODABAR	
Receive buffer size	10K bytes	
Note	Printing speed may be slower, depending on the data transmission speed and the combination of control commands.	
Input Power	9VDC, Standby 60mA and Max 3A (Standard model)	
Environment conditions	Temperature	-10°C ~ 40°C (operating) -10°C ~ 70°C (storage)
	Humidity	30% - 80% (operating) 10% - 90% (storage)
MCBF (Mean Cycle Between failure)	Mechanical Head	37,000,000 lines Approximately 50 Km