Standalone Printer Unit

DPU-414

Measuring Instrument　Medical Equipment

Max printing speed: 52.5 character/sec
Available international character
Interface: Serial and parallel

DPU-414

Model		DPU-414-30B
Printing	Method	Thermal serial dot printing
	Number of dots/line	9 × 320
	Paper width (mm)	112^{+0}_{-1}
	Printing width (mm)	89.6
	Speed (character/sec) max	52.5
	Paper path	Curved
	Character matrix (H×W dots)	9 × 7
	Character size (H×W mm)	2.5 × 1.9, 2.5 × 0.9 (Condensed)
	Number of columns	40, 80 (Condensed)
Character type		Extend Graphics Character set, Alphanumeric, International Characters, Katakana Character set
Power supply (V)		Specified AC adapter, Ni-MH Battery
Battery		Without (option)
Data input method		Parallel (36pins Amphenol) , Serial (9pins D-SUB)
Input buffer		Approx. 28Kbytes
Cutting		Tear bar
Operating	Temperature (℃)	0 to 40
	Humidity (%RH)	30 to 80 (Non condensation)
Service life (line)		500,000
Dimensions (W×D×Hmm)		160.0 × 170.0 × 66.5 (printer unit only) ※1
Mass (g)		Approx.580 (without Battery)
Standerd		FCC, CE MARK, VCCI
Option		AC Adapter (PW-4007) , Battery (BP-4005)

※1 Excluding protrusion

Serial interface specification

(1) Specification

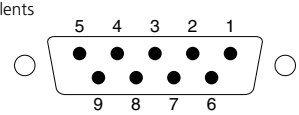
Item	Specification
Baud rate	75, 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200bps
Data bit	7bits, 8bits
Parity bit	Odd, Even, or None
Stop bit	1bit
Signal level	MARK : -3V to -25V : Logic "1"
	SPACE : +3V to +25V : Logic "0"
Control method	Busy, Xon/Xoff

(2) Pin assignment

Pin No.	Signal	In/Out	Function
1	N.C.	–	Not connected
2	TXD	OUT	Out put Xon/Xoff
3	RXD	IN	Recieves data from host device
4	–	–	Internally connects with Pin No.6
5	S.G.	–	Ground for signal
6	–	–	Internally connects with Pin No.4
7	N.C.	–	Not connected
8	RTS	OUT	Data transmission request signal
9	N.C.	–	Not connected

(3) Connector pin arrangement

Shape:Dsub 9-pin socket with screw thread by inch system(No.4-40 UNC)
Plug:RDED-9S-LNA 4-40 (HIROSE) or equivalents



Parallel interface specification

(1) Specification

Item	Specification
Synchronization	Synchronized with $\overline{\text{STROBE}}$ signal
Handshaking	Synchronized with $\overline{\text{ACK}}$ and BUSY signal
Signal level	TTL level

(2) Pin assignment

Pin No.	Signal	In/Out	Function
1	$\overline{\text{STROBE}}$	IN	Data read
2 to 9	DATA1-8	IN	Carries input data 1 when high and 0 when low
10	$\overline{\text{ACK}}$	OUT	Data received signal
11	BUSY	OUT	Printer outputs "High" when not ready to data receive
12	PE	OUT	Printer outputs "High" when paper out
13	SELECTED	OUT	Printer outputs "High" when ready to print at not OCX mode Printer output "Low" when ready to output status at OCX mode
14	$\overline{\text{AUTO FEED XT}}$	IN	Ignore
15	N.C.	–	Not connected
16	GND	–	Ground
17	CHASSIS GND	–	Chassis ground
18	N.C.	–	Not connected
19 to 30	GND	–	Twist pair return ground for data
31	$\overline{\text{INIT}}$	IN	Resets printer by "Low" input
32	$\overline{\text{ERROR}}$	OUT	Output "Low" when error occurs
33	GND	–	Ground
34	N.C.	–	Not connected
35	+5V	OUT	Pull up to +5V with 1.2kΩ resistance
36	$\overline{\text{SELECT IN}}$	IN	Ignore

(3) Connector pin arrangement

Shape:Centronics specification 36 Pins 57-40360(DDK) or equivalents.