FUJITSU THE POSSIBILITIES ARE INFINITE

HIGH SPEED THERMAL PRINTER, 2" JOURNAL PRINTER UNIT 24 DRIVE : 602 SERIES

FTP-622UCL512 / USL501

■ OVERVIEW

The FTP-622 UCL/USL Series is 24V driven journal printer unit with a winder for 2 inch wide paper. The unit has our FTP-622 MCL mechanism and our FTP-622DCL (Centronics) or FTP-622DSL (RS232C) control board, with an integrated paper feed and winding part.

The journal printer unit is most suitable for applications such as POS, ATM, and data backup for various other equipment.

■ HIGHLIGHTS

- **Unit**
  The printer mechanism, paper feed part, winding part and control board are integrated into one unit, therefore, the printer can be set up merely by installing a frame at the device.
- **Electrostatic protection**
  Because of its metal frame, the printer unit is resistant to static electricity.
- **High speed printing**
  Maximum of 80 mm/sec. (640 dotlines/sec.) high speed printing is possible.
- **Low power consumption**
  If low speed mode (30 mm/sec.) is specified by command, the head drive current is approximately 1.1 A (at a 50% printing ratio). Low power consumption is possible.
- **Built-in winder**
  The built-in winder allows assembly and adjustment at the side of the journal printer.

- **Paper near-end detection**
  A mechanism to detect the amount of remaining paper is included, so near-end of paper can be detected.
- **Centronics / RS232 C supported**
  A Centronics or RS232 interface can be selected by switching the board (type is specified before shipment).
- **Long life**
  Paper traveling distance: 50km
  Withstand pulse: 100,000,000 pulses

■ PART NUMBERS

Name		Part Number
Journal Printer Unit	Conforming to Centronics	FTP-622UCL512 *1
	Conforming to RS232C	FTP-622US501 *2

Notes: *1: Supports Kanji, interface board is FTP-622DCL101
*2: Supports Kanji, interface board is FTP-622DSL112 or equivalent

■ SPECIFICATIONS

Item	Specifications	
Part number	FTP-622UCL512	FTP-622USL501
Printing method	Thermal-line dot method	
Dot structure	448 dots/line	
Dot pitch (Horizontal)	0.125 mm (8 dots/mm)—Dot density	
Dot pitch (Vertical)	0.125 mm (8 dots/mm)—Line feed pitch	
Effective printing area	56 mm	
Paper width	58 mm width, max. 83	
Number of columns	37 columns (12x 24 dot font)	
Paper thickness	60 to 100 μ m (some paper in this range may not be used because of paper characteristics	
Printing Speed	80mm/sec., 50mm/sec., 30mm/sec. switchable (by command)	
Character types	Alphanumeric, katakana: 159 types International and special characters: 195 types JIS Kanji level 1, level 2, non-Kanji (supported only by FTP-628DSL102): about 6800 types	
Character, dimensions (H×W), number of columns	12 × 24 dots, (1.5 × 3.0 mm), 37 columns: alphanumeric, katakana 24 × 24 dots, (3.0 × 3.0 mm), 18 columns: alphanumeric, katakana, Kanji 8 × 16 dots, (1.0 × 2.0 mm), 56 columns: alphanumeric, katakana 16 × 16 dots, (2.0 × 2.0 mm), 28 columns: alphanumeric, katakana, Kanji	

■ SPECIFICATIONS

Item		Specification	
Part Number		FTP-622UCL512	FTP-622USL501
Interface		Conforms to RS232C Centronics	Conforms to RS232
Power supply	For print head	24 VDC ±5%, average current *3, ( ) is the peak value 0.87 (1.16) A (print ratio: 25%, print speed: 80mm/sec.) 0.63 (1.16) A (print ratio: 25%, print speed: 50mm/sec.) 0.58 (0.59) A (print ratio: 25%, print speed: 30mm/sec.)	
	For motor	24 VDC ±5%, 1A maximum	
	For logic	5 VDC ± 5%	
Dimensions	Printer mechanism	125 x 230 x 118 mm (WxDxH)	
Head life		Pulse resistance: 1 x 10^8 million pulses/dot (under our standard conditions) Abrasion resistance: paper traveling distance 50km (print ratio: 25%)	
Operating environment	Operating temperature	0° C to 50° C (printing quality is guaranteed at +5° C to +40° C)	
	Operating humidity	20 to 85% RH (no condensation)	
	Storage temperature	-20° C to +60° C (paper not included)	
	Storage humidity	5-95% RH (no condensation)	
Detection function	Head temperature detection	Detected by thermister	
	Paper out/mark detection	Detected by photo-interrupter	
	Head up detection	Detected by micro-switch	
	Near end detection	Detected by mechanical switch	
Recommended thermal sensitive paper		High sensitive paper: TF50KS-E4 (Japanese Paper) Standard paper: TF60KS-E (Japanese Paper) - FTP-020P0104 (58mm) (Paper is FT50KS-E thin (65µm) type PD150R (Oji Paper) - FTP-020P0701 (58mm) Medium life storage paper: TF60KS-F1 (Japanese Paper) - FTP-020P0102 (58mm) PD170R (Oji Paper) P220VBB-1 (Mitsubishi Paper) PH65BC-3H (Oji Paper) Long life storage paper: PD160R-N (Oji Paper) AFP-235 (Mitsubishi Paper)	

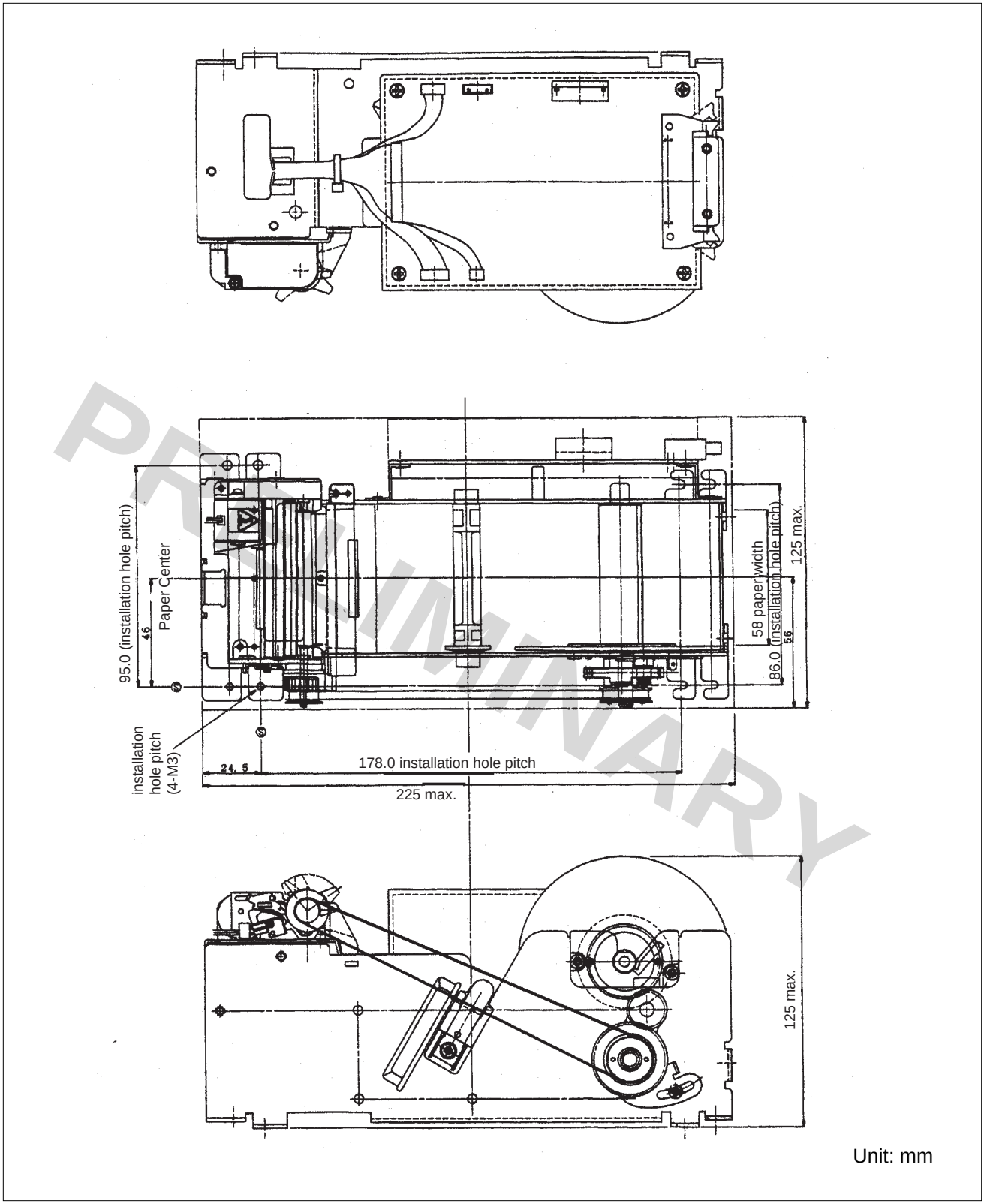
■ FUNCTION

	Item		Item
1.	Test print function	7.	Head voltage abnormality detection
2.	Paper out detection	8.	Motor power saving function
3.	Paper near end detection	9.	Mark detection function
4.	Head up detection	10.	MCU operation abnormality detection
5.	Thermal head temperature abnormality detection	11.	Bar code printing function
6.	Blow-out fuse detection		

■ INTERFACE, COMMAND, OPTIONS

The interface board FTP-622DCL101 is used for FTP-622UCL512, and the FTP-DSL112 or equivalent is used for FTP-622USL501.
For information on interface, commands, and options, please the data on the common items of the 602 series board.

Interface board



Unit: mm

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