

BATTERY DRIVE, MOBILE TYPE COMPACT STANDALONE THERMAL PRINTER 2" EASY LOADING MODEL

FTP-628WSL110/120

OVERVIEW

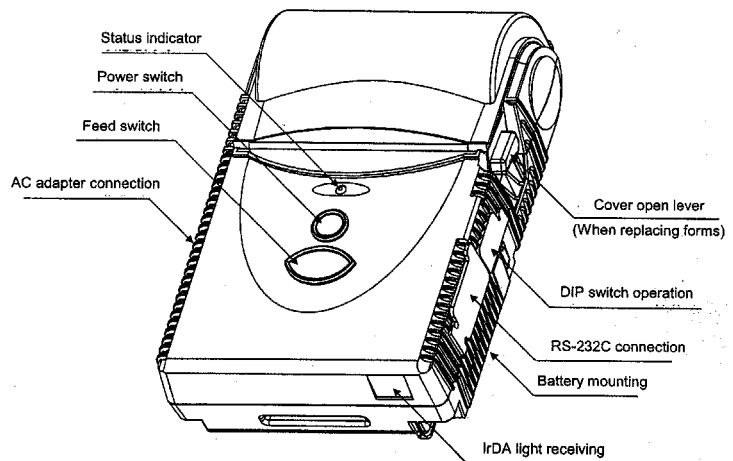
The supply voltage of the FTP-628WSL Series is 120VAC (via AC adaptor) or battery. The unit uses 2 inch wide paper. The mechanism and interface board is a standard multiple purpose unit.

The semi-rugged printer unit is most suitable for applications such as handheld, mobile and portable devices, as well as for various other equipment.



FEATURES

- Lightweight and ultra small size
- Easy paper loading
- Bluetooth®, infrared and serial interfaces
- 3.7V Lithion battery, 120 or 240 VAC adapter
- Drop-resistant - 1.5 meters
- Water resistant
- Prints 2-D barcodes
- 3 hour charge cycle
- Up to 6 paper rolls / charge
- Thin label capability
- RoHS compliant
- IP54 compliant
- Windows®2000/XP, Linux drivers



INTERFACE SPECIFICATION AT HOST SIDE

| Item | Specifications |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bluetooth V2.0 Class 2 | Profile: GAPS DP, SPP. Modulation: FHSS/GFSK Data speed: 460 kbps Maximum distance: 10m Protocol stack: IrLAP, IrLMP, IrLAS, TinyTP, IrCoMM |
| RS-232C | Data speed: 115,200, 19,200 / 9,600 / 4,800 kbps Synchronous method: Full duplex Handshake: DTR/DSR, XON/XOFF control Input/output level: RS-232C |
| IrDA (Ver. 1.2, IrCoMM) | Data speed: 115,200 / 57,600 / 38,400 / 19,200 / 9,600 kbps |

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■ PART NUMBER

| Item | Part Number |
|----------------------------------------|------------------------------------------------------------------------------------|
| Bluetooth , IrDA and serial interfaces | FTP-628WSL110#10 (includes 120V AC adapter, battery, belt clip and paper roll) |
| | FTP-628WSL110#20 (includes 120/240V AC adapter, battery, belt clip and paper roll) |
| IrDA and serial (RS-232C) interfaces | FTP-628WSL120#10 (includes 120V AC adapter, battery, belt clip and paper roll) |
| | FTP-628WSL120#20 (includes 120/240V AC adapter, battery, belt clip and paper roll) |
| Serial interface cable | FTP-628Y303 |

■ SPECIFICATIONS

| Item | | Specification |
|-----------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number | | FTP-628WSL110 / 120 |
| Dot structure | | 384 dots / line |
| Dot pitch (horizontal) | | 0.125 mm |
| Dot pitch (vertical) | | 0.125 mm |
| Effective print area | | 48 mm |
| Paper width/diameter | | 58mm / ID 8mm, OD 36mm max. |
| Paper thickness | | 60 to 100 μ m*1 |
| Maximum printing speed | | Maximum 40mm/sec. (320 dotline/s) at 12.5% print ratio |
| Character types | | Alphanumeric KANA: 159 International characters: 195 Registered characters: 224 JIS KANJI: approx. 6800 |
| Character dimensions (WxH mm), number of characters | | 12 x 24 dots (1.5 x 3.0mm), 32 columns 24 x 24 dots (3.0 x 3.0mm), 16 columns 8 x 16 dots (1.0 x 2.0mm), 48 columns 16 x 16 dots (2.0 x 2.0mm), 24 columns |
| Power | Battery (Lithium Ion) | 3.7VDC lithium 1,800mAh |
| | AC Adapter | 100VAC to 120VAC adapter #10 100VAC to 240VAC adapter #20 (AC cable not included) |
| Power consumption | | 1.6-1.7A Printing (print ratio 12.5%) standby 30-60mA communication 90-170mA |
| Dimensions (W X D X H) | | 84 x 136.5 x 30.0 mm body / 43.6mm paper holder |
| Weight | | 280 g (battery and belt clip included) |
| Expected Life | Head | Pulse durability: 100 million pulse/dot (25% print ratio) Wear resistance: 50Km |
| | Battery | One charge: 100m (at 12.5% printing ratio), 300 charge cycles |
| | Paper Holder | 5000 times open / close |
| MTBF | Mechanism | 3,000 hours |
| | Interface Board | 500,000 hours |

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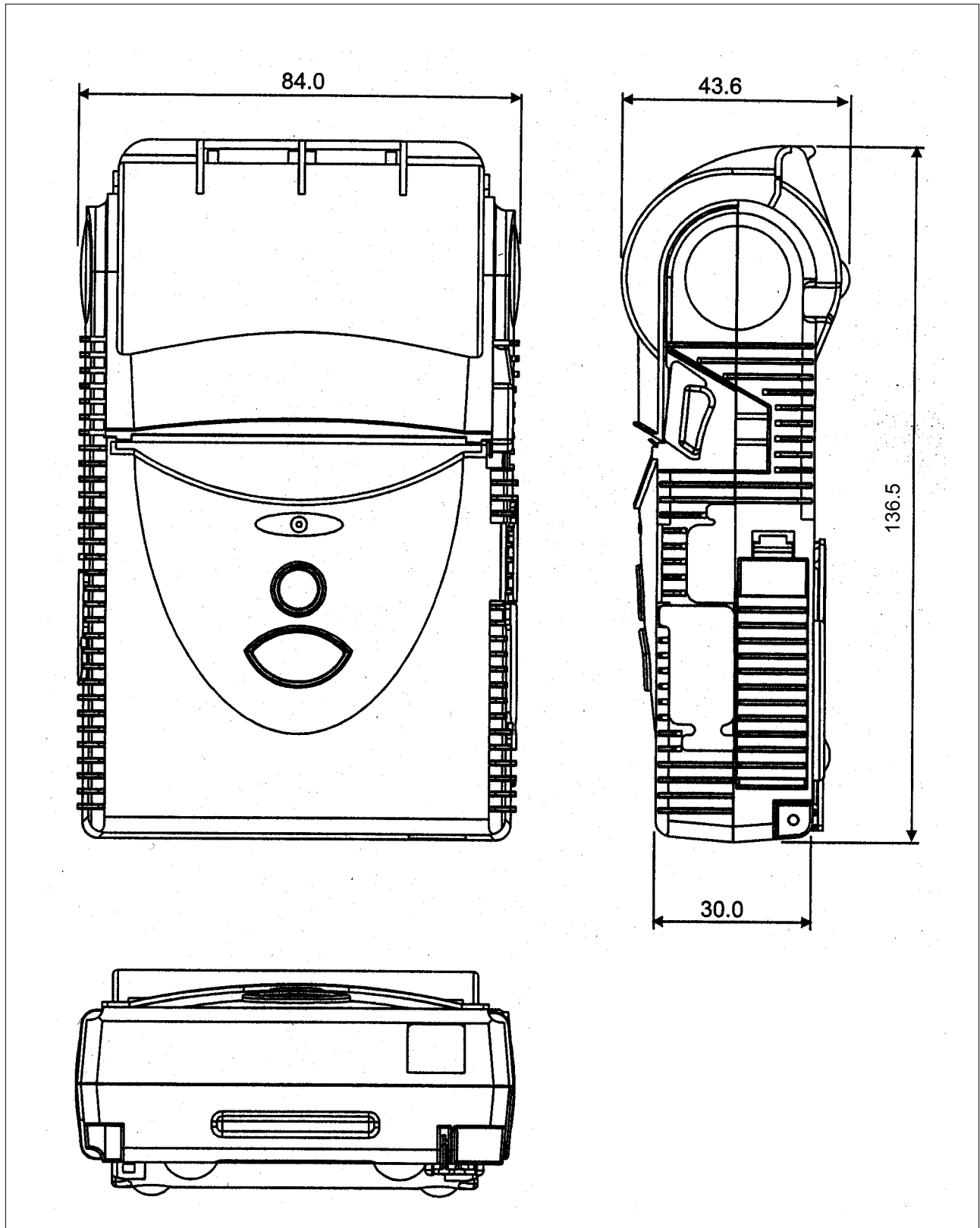
FTP-628WSL110/120 Specs continued

| Item | | Specification |
|--------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|
| Bar Code Type | Standard | UPC-A, UPC-E, JAN13, JAN8, CODE 39, ITF, CODABAR, CODE 128 |
| | 2-D | MAXI, PDF417, QR |
| Interface | Serial | RS-232C |
| | IrDA | Version 1.2 (Ir COMM protocol) |
| | Bluetooth*3 | Version 2.0 (Class 2) |
| Safety Standard | Noise | FCC Class B, FCC Part 15 |
| | Water resistant | JIS C0920 Class 2 |
| Environmental conditions | Operating temperature | 0°C to +50°C*4 |
| | Operating humidity | 30 to 85% RH (no condensation) |
| | Storage temperature | -20°C to +60°C |
| | Storage humidity | 5 to 90% RH (no condensation) |
| Detection functions | Head temperature | Detected by thermistor |
| | Mark detect | Detected by photo-interruptor |
| | Paper out | Detected by photo-interruptor |
| | Cover open | Detected by micro-switch |
| Major Functions | | Page mode Registration of character and image Enlarge characters Auto status reply |
| Recommended thermal sensitive papers | High sensitive paper | TF50KS-E4 (Nippon paper) |
| | Standard Paper | FTP-020P0704 TF-60KS-E (Nippon paper), PD150R (Oji paper) |
| | Medium term paper | TF-60KS-F1 (Nippon paper), PD170R (Oji paper), P220VBB-1 (Mitsubishi paper), FH65BC-3H (Oji Film) |
| | Long term paper | PD160R-N (Oji paper), AFP-235 (Mitsubishi) |
| | Label paper | HW54T (Nippon paper) |

Notes: *1: There may be exceptions
*2: ESC/POS™ Seiko/Epson trademark
*3: FTP-628WSL110 only
*4: 0 to +40°C guarantee of print quality

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■ DIMENSIONS



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■ COMMANDS

| Command | Contents |
|---------------------------------------------------|---------------------------------------------------------------|
| HT | Horizontal tab. |
| LF | Line feed with printing. |
| FF | Feeds forms (new page). |
| ECS RS | Sets reverse printing. |
| ESC US | Resets reverse printing. |
| ESC FF | Data printing in page print mode. |
| ESC ! + n | Sets print mode. |
| ESC % + n | External registration character specification / cancellation. |
| ESC & + y + c1 + c2 + x + d1 ~ dn | External registration character definition. |
| ESC * + m + n1 + n2 + [d1 ~ dn] | Bit image mode registration |
| ESC 3 + n | Sets the line feed length. |
| ESC ? + n | External registration character deletion. |
| ESC @ | Printer initialization. |
| ESC A + n | Sets the space between lines. |
| ESC C + n | Sets the page length by character line. |
| ESC D + n | Sets the tab position. |
| ESC J + n | Feeds paper in forward direction and prints. |
| ESC K + n | Reverse paper feed. |
| ESC L | Page print mode selection. |
| ESC R + n | Selects international character. |
| ESC S | Line print mode selection. |
| ESC V + n | Right Rotation 90° specification / cancellation. |
| ESC W + x1 + x2 + y1 + y2 + Dx1 + dx2 + dy1 + dy2 | Print area setting in page print mode. |
| ESC X + m + n | Sleep mode time setting. |
| ESC c + 1 + n | Sets internal processing. |
| ESC s + n | Print speed setting. |
| ESC { + n | Sets/resets upside down printing. |
| ESC Y SOH x a DLE + n | RS-232C communication setting. |
| FS ! + n | Kanji printing mode collective specification. |
| FS & | Kanji printing mode specification. |

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Commands continued

| Command | Contents |
|--------------------------|----------------------------------------------------------------------|
| FS . | Kanji printing mode cancellation. |
| FS 9+n | Sets the detection functions. |
| FS C+n | Kanji code system selection. |
| FS E+n | Correction of impressed energy. |
| FS r+n | Parameter transmission (valid for non-protocol mode). |
| GS \$+n+1+2 | Vertical absolute position specification in page print mode. |
| GS &+m+x+y1+y2+[d]k | Registration of image data. |
| GS '+m+n | Prints registered image data. |
| GS < | Line feeds to the next mark. |
| GS A+m+n | Sets the line feed length after mark detection. |
| GS B+n | Bar code angle setting. |
| GS E+n | Print quality setting. |
| GS a+n | Setting and cancelation of status transmission. (non-protocol mode). |
| GS e+n+m | Bar code width setting. |
| GS h+n | Bar code height setting. |
| GS k+m+n+d1~dN | Bar code printing. |
| GS k+m+k1+k2+k3+k4+d1~dn | Two dimensional code printing. |
| GS (A ETX +n | Bluetooth link time setting. |
| GS (A ACK +m+n | Bluetooth security mode setting. |
| GS (A BS +n+d1 to dn | Bluetooth PIN code setting. |
| GS (A HT +n+d1 to dn | Bluetooth device name setting |
| GS (A ENQ | Bluetooth, information printing (WSL110 only). |

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