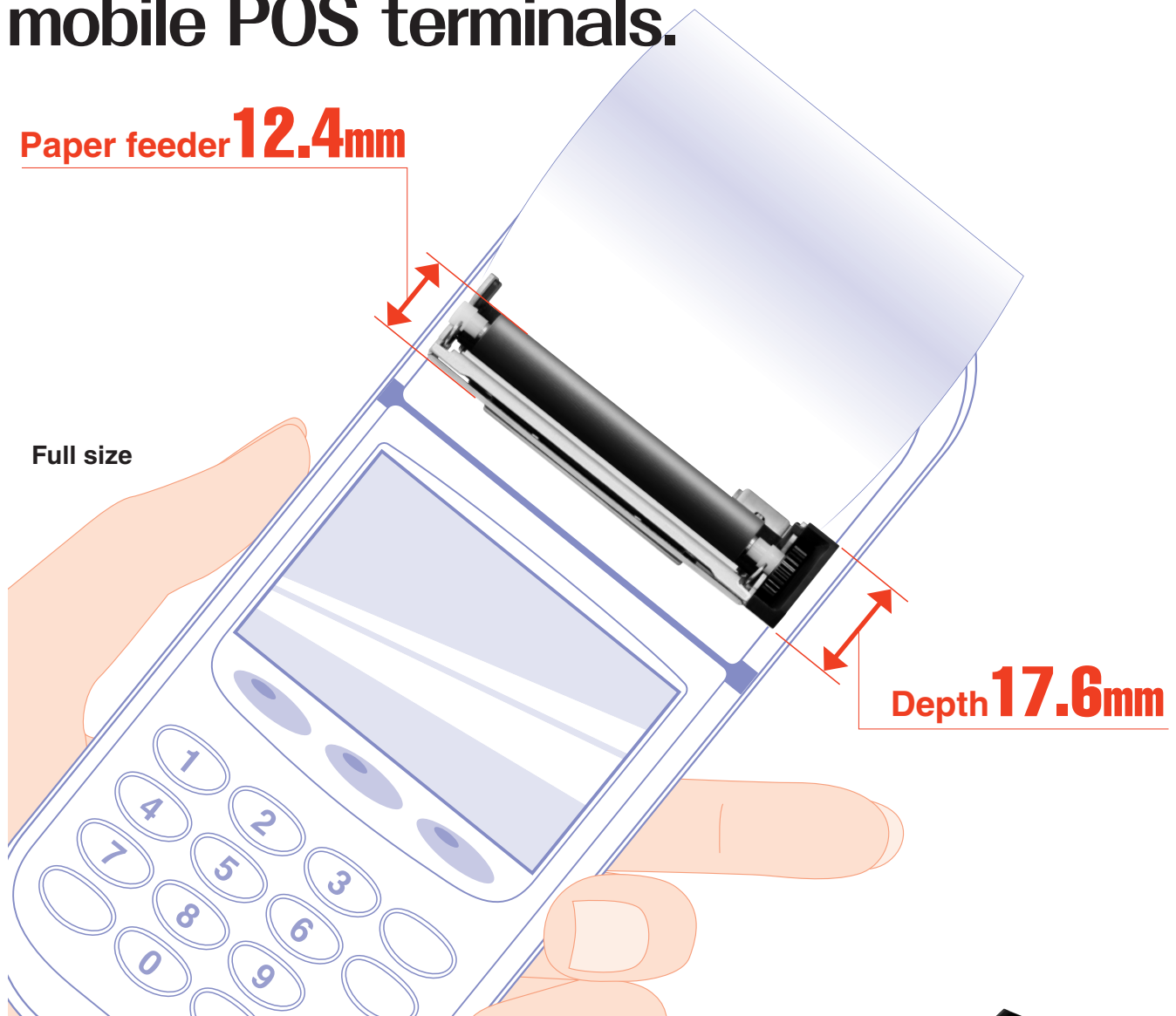


Compact Thermal Printer (Vertical Type)

PTMBL1A00A

NEW
2009

Industry-thinnest at 17.6mm performs to realize higher functionality of mobile POS terminals.



Compact mechanism pursuing smaller size and less weight, contributes to flexibility of set design.

- Industry-thinnest at 17.6mm. Light weight of 36g.
- Compatible with 58mm-wide thermal paper.
- Vertical type, easy loading mechanism.
- Low power consumption.



Compact Thermal Printer (Vertical Type)

PTMBL1A00A



Compact mechanism pursuing smaller size and less weight, contributes to flexibility of set design.

Applications

All kinds of hand-held terminals including mobile POS terminals and mobile information terminals, and cash registers, etc.

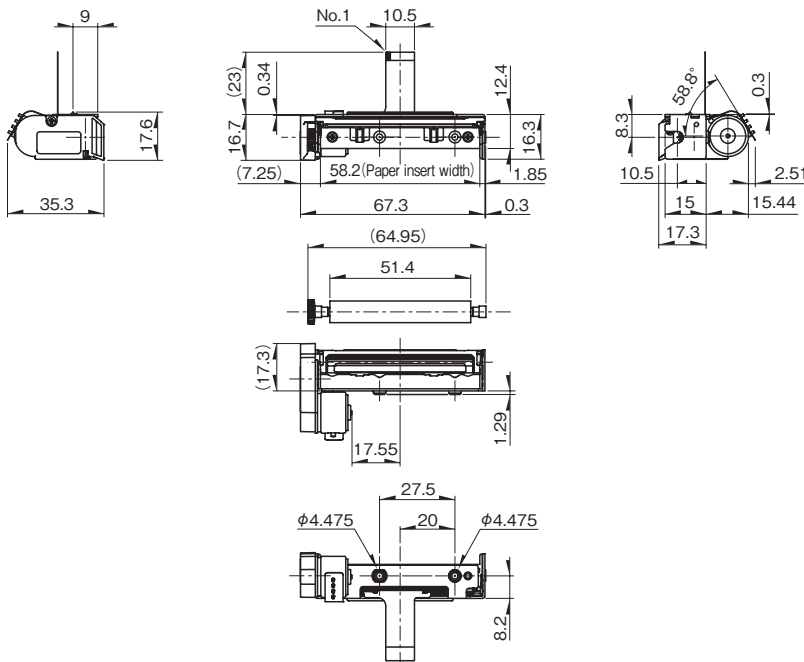
Typical Specifications

| Items | Specifications |
|-------------------------|----------------|
| Paper setting | Easy loading |
| Printing method | Line thermal |
| Number of dots per line | 384dots |
| Density of dots | 8dots/mm |
| Printing speed | 75mm/s max. |
| Paper width | 58mm (+0, -1) |
| Printing width | 48mm |

| Items | Specifications | |
|-----------------------------|---------------------|-------------------|
| Operating power | Head and motor | 4.2V to 8.5V |
| | Controller | 2.7V to 5.5V |
| Operating temperature range | -5°C to +50°C | |
| Head life | Abrasion resistance | 50km |
| | Pulse activation | 100million pulses |
| Dimensions (WxDxH) | 67.6×17.6×35.3mm | |
| Weight | Approx. 36g | |

Dimensions

Unit:mm



| No. | Sig. name | note |
|-----|-----------|-----------------------------|
| 1 | LF-B* | Motor B* |
| 2 | LF-B | Motor B |
| 3 | LF-A* | Motor A* |
| 4 | LF-A | Motor A |
| 5 | VPP | Power supply for Head drive |
| 6 | VPP | Power supply for Head drive |
| 7 | LATCH* | Data latch |
| 8 | GND | GND |
| 9 | GND | GND |
| 10 | STB* | Strobe |
| 11 | VDD | Power supply for Head logic |
| 12 | GND | GND |
| 13 | GND | GND |
| 14 | CLOCK | Head clock |
| 15 | DATA_IN | Data in |
| 16 | VPP | Power supply for Head drive |
| 17 | VPP | Power supply for Head drive |
| 18 | N.C | No use. |
| 19 | N.C | No use. |
| 20 | N.C | No use. |

Precautions when handling our products

- For the export of products which are controlled items subject to foreign and domestic export laws and regulations, you must obtain approval and/or follow the formalities of such laws and regulations.
- Products must not be used for military and/or antisocial purposes such as terrorism, and shall not be supplied to any party intending to use the products for such purposes.
- Unless provided otherwise, the products have been designed and manufactured for application to equipment and devices which are sold to end-users in the market, such as AV (audio visual) equipment, home electric equipment, office and commercial electronic equipment, information and communication equipment or amusement equipment. The products are not intended for use in, and must not be used for, any application of nuclear equipment, driving control equipment for aerospace or any other unauthorized use.
With the exception of the above mentioned banned applications, for applications involving high levels of safety and liability such as medical equipment, burglar alarm equipment, disaster prevention equipment and undersea equipment, please contact an Alps sales representative and/or evaluate the total system on the applicability. Also, implement a fail-safe design, protection circuit, redundant circuit, malfunction protection and/or fire protection into the complete system for safety and reliability of the total system.
- Before using products which were not specifically designed for use in automotive applications, please contact an Alps sales representative.

Cautions for using this catalog

- The colors of the products in the catalog may slightly differ from those of the actual products.
- The external appearance, functions and other specifications herein may be changed for improvement and other reasons without prior notice. Furthermore, the products herein may discontinue without prior notice.
- All product names, company names and names of standards described in this catalog are trademarks or registered trademarks of their respective owners.
- The contents of this catalog are according to Alps Electric as of October 2008.
- This catalog is valid until the end of December 2009.

Inquiries about Products

Products Information Center
+81 (3) 5499-8154
Product information site
<http://www3.alps.com/e/>

Perfecting the Art of Electronics

ALPS
ALPS ELECTRIC CO., LTD.
1-7, Yukigaya-otsukamachi, Ota-ku, Tokyo, 145-8501, Japan