

# AL5H series / Front Desk System

# K-Series ME system



Miwa's PC based "KeyServer" software operates on the MS Windows 2000 and XP platforms, making this system ideal for larger hotels. Using both magnetic and smart (IC) cards, it provides a secure and flexible key card solution for both guests and staff,

Up to 30 K-ME motor encoders can be networked together when operating with 3 PC's, providing support for 5000 rooms.

KeyServer, as with all of Miwa's front desk systems, is PMS interface ready and the K-ME encoder's are capable of dual-track encoding, allowing for the support of POS applications.

The separate DTU (Data Transfer Unit) communicates by infrared with the locks, allowing for fast and secure data communication, providing interrogation and audit data.

## MIWA LOCK CO., LTD.

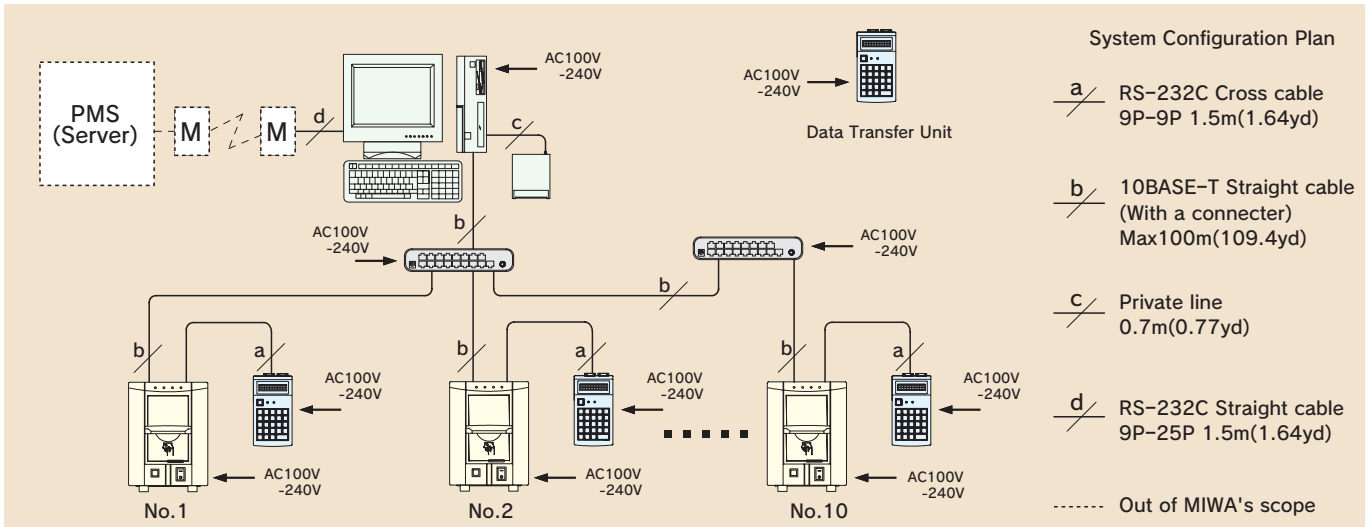
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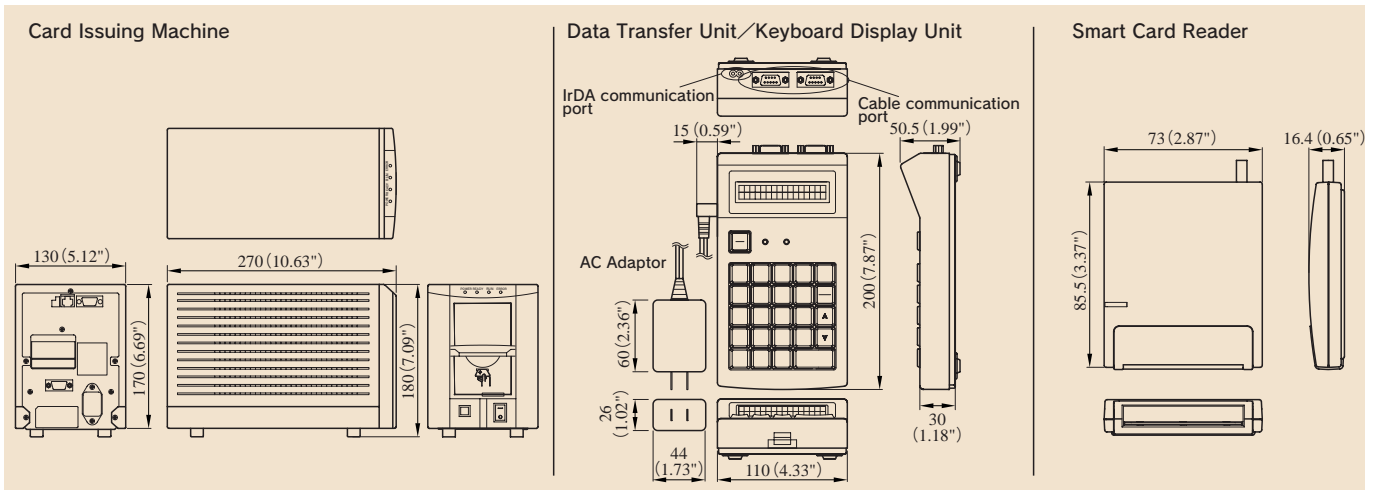
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# K-Series ME Systems

## System Diagram



## Detail Drawing



## Specifications

### Card Issuing Control PC (recommended) Hardware specifications

CPU	Over Pentium 166 MHz
OS	Windows 2000 / XP
Memory	Over 32 MB
HDD	2GB
LAN	10 BASE-T x 1 channel
Serial	RS-232C x 2 channels
FDD	3.5 inch 1 drive internally installed
CD-ROM	1 drive internally installed
USB	2 channels

### Keyboard Display Unit

External dimensions	110mm (W) x 200mm (H) x 50.5mm (D)
Weight	Approx. 0.5kg
Power source	AC100V~240V adaptor
Electricity consumption	About 30VA
Environmental conditions	Operating temp. & humidity : +5~+40°C 30~80%RH (no condensation) Retained temp. & humidity : -20~+60°C 15~90%RH (no condensation)

CPU	16 bit CPU
RAM	32 KB CPU internally installed SRAM
ROM	512 KB flash memory
LCD type	STN
	Indicative letters : 16 letters x 2 rows
	Size of letters : 2.95 x 4.35 (5 x 7 dots)
	Backlight : LED method

### Card Issuing Machine

External dimensions	130mm (W) x 180mm (H) x 270mm (D)
Weight	Approx. 5.0kg
Power source	AC100V~240V+10% 50 Hz/60Hz
Electricity consumption	40W
Environmental conditions	Operating temp. and humidity : +5~+40°C 35~80%RH (no condensation) Retained temp. and humidity : -10~+55°C 25~80%RH (no condensation)

Magnetic recording specifications	Motor drive type
Recording density	210 BPI
Card transfer speed	200mm/sec when magnetic reed light
Life of magnetic head	600,000times (of 5 years whichever longer)
Used cards	ISO7810, 7811-1~6 complying cards Track 3 key data, track 1 POS data can be entered. Card size : 5.47~85.72mm, x 53.92~54.03mm (3.37 ~3.38, x 2.12 ~2.13) Card thickness : 0.76+0.08mm (0.03+0.00315) Transparent density : over 1.5 (all portions of cards)

### Smart Card Reader

External dimensions	73.0mm (W) x 16.4mm (H) x 85.5 mm (D)
Cable length	700mm
Weight	Approx. 95g
Power source	Provided from PC via USB
I / F	USB 1.1
Transfer speed	Card: 230,000 bps (max), Host: 12 Mbps (max)