

# SHARP

## New Product News

## LCD Control Terminal

5.7 inches STN color LCD **ZM-42D**

5.7 inches STN monochrome LCD **ZM-42L**

**A high advanced function is added to the easiness to watch and is used with the legibility. It is most suitable for the incorporation to the device with a light pattern body.**

A new LCD control terminal from Sharp, the leading company in liquid crystal. The new product corresponding to the various needs in the field. The operation and drawing speed is much improved by the loading 32-bit RISC chip and the latest graphic accelerator. Wide variety of functions are available.

### ●At designing

- Screen editing software fully utilizing the operability of Windows.
- Easy drawing just by selecting the item from the **graphic parts library**.
- Parts once created for some use can be saved as **custom parts** for another use later.
- Easy layout by moving the switch by **one bit**.
- Importing the **DXF file** of CAD data.
- A screen image can be pasted into the other programs like Excel via clipboard.

### ●At debugging

- By using **simulator function**, only PC and LCD control terminal are needed in debugging.
- High speed transfer of screen image (**57.6kbps**).

### ●At operation

- Speedy response is realised by the high speed of communication (max.**57.6kbps**) and macro operation function.



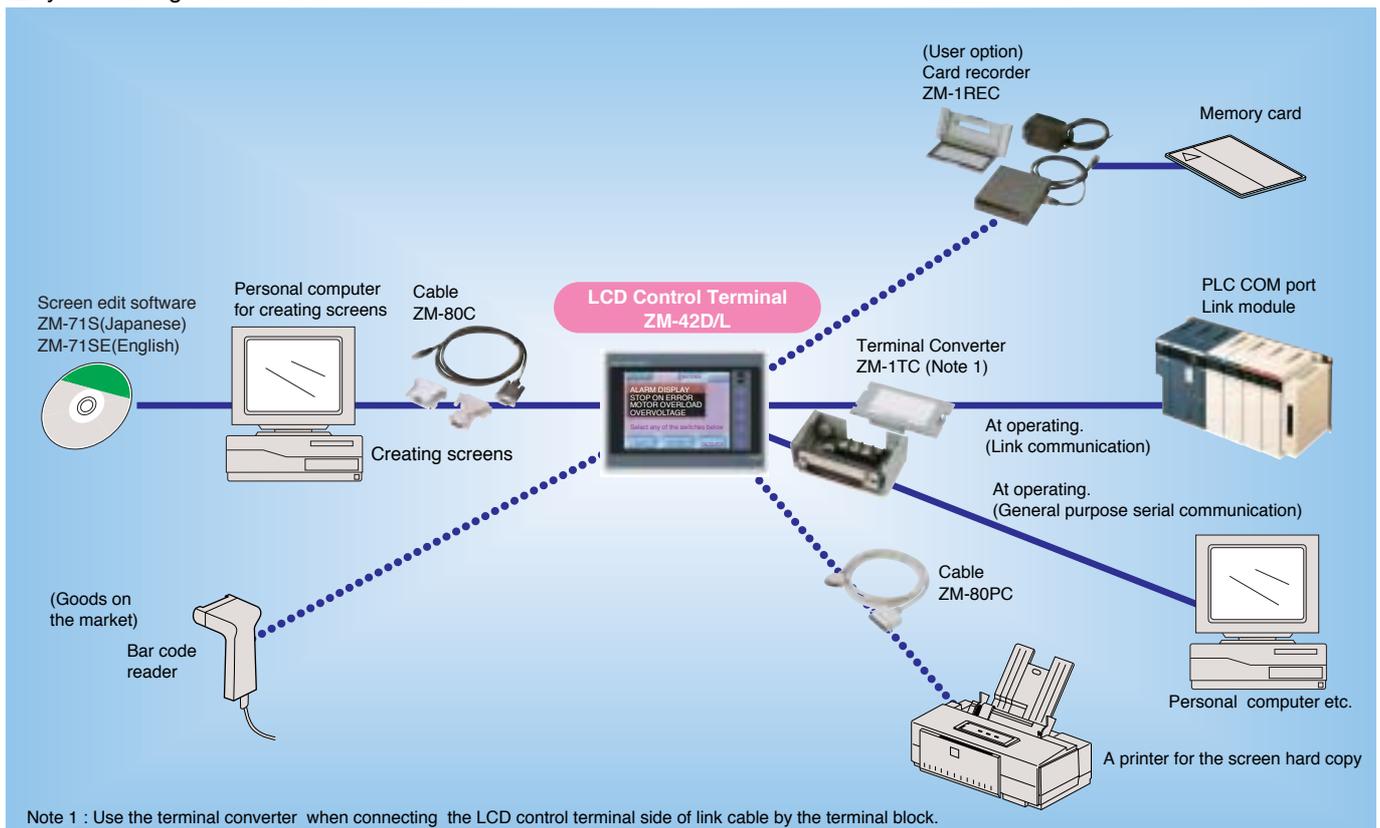
ZM-42L



ZM-42D

Model Name	Display specification	Dot pitch	Barcode I/F	Printer I/F
ZM-42D	5.7 inches STN color	320×240	○	○
ZM-42L	5.7 inches STN monochrome	320×240	○	○

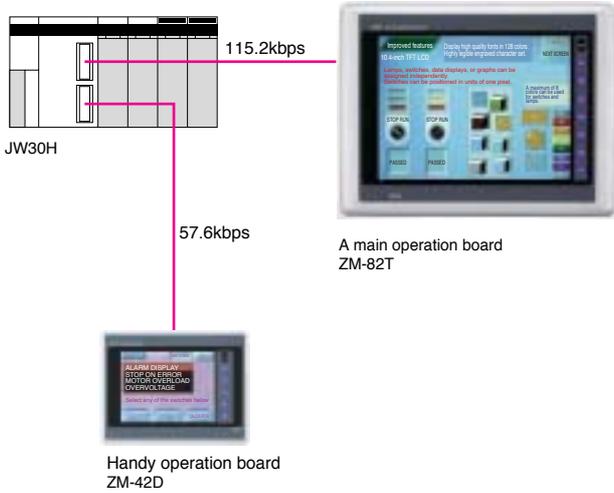
### ■System configuration chart



## High-speed communication

### Communication with the PLC

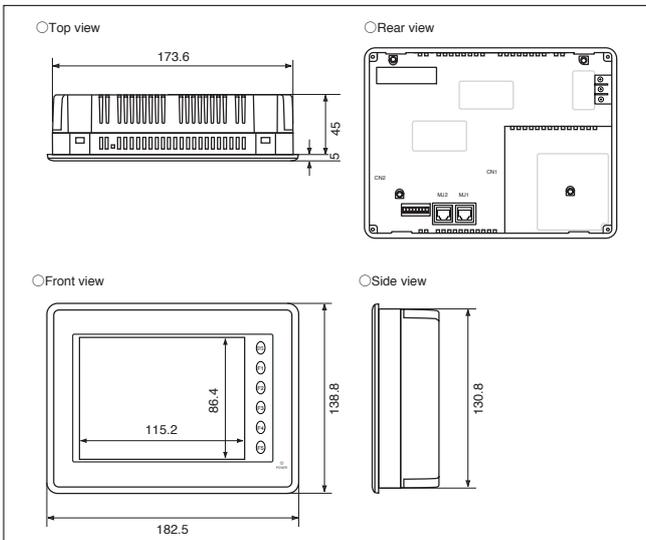
The Control Terminal is supported for 57.6kbps high-speed communication, so max. 2 LCD Control Terminal can be connected at high speed without upper costs by connecting with the communication port of Sharp JW30H.



### Communication with the personal computer

The communication speed is also 57.6kbps when screen is transferred as above, frequent screen transfer in the adjustment can be done speedily.

## External dimensions(unit:mm)



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- These specifications may be changed without prior notice. The color of the actual product may vary from the colors shown in the leaflet.
- Some items in this leaflet may be in short supply. Please ask our sales office about availability before placing orders.



### For safety use

- Make sure you read the instruction manual for each product thoroughly, before using it.  
Make sure to use all products with the appropriate power supply.



Certified ISO-9001  
JQA-1385



## General specifications

ZM-42D/42L	
Operative ambient temperature	0°C to +50°C
Operative ambient humidity	35 to 85%RH(without dew condensation)
Power voltage	24 VDC
External dimensions	W182.5×H138.8×D55mm
Panel cut-out	W174.0 <sup>+0.5</sup> ×H131.0 <sup>+0.5</sup> mm

## Major function specifications

	ZM-42D	ZM-42L
Indication pixel	STN color LCD	STN monochrome LCD
Dot pitch	320 (W) × 240 (H) dots pitch 0.36mm	
Effective display area	115.2 (W) × 86.4 (H) mm	
Display color	16 colors+blinking	8 gradation+blinking
Back-light	Cold cathode rectifier (can be exchanged by user).	
Back-light average life	Approx. 25,000 hours	
Touch panel	Analog resistance film system (1024 (W) ×1024 (H) division)	
Fixed keypad	SYS/F1/F2/F3/F4/F5	
Number of characters	40 characters × 15 lines(half), 20 characters × 15 lines(full)	
Kinds of display character	JIS class 1 and 2 Chinese characters, alphabetical and numeric, katakana, hiragana, sign, custom characters	
Size of characters	Enlarge between 1 to 8 in vertical and horizontal direction, 64 times maximum. Quarter size display is available for alphabetical, numeric, and kana characters.	
No. of registered screens	Max.1024 screens	
Screen data memory	FLASH ROM 1MB, (user area : approx. 760kB)	
Interface for connecting PLC	RS232C,RS422/485, Max.57.6kbps (Dsub 25 pin female)	
Interface for transferring data, connecting bar-code reader, connecting card recorder	RS232C,RS422/485, Max.57.6kbps (modular 8 pins, 2 ports)	
Printer interface	1 port, Available to print out currently displayed screen	

## Compatible PLC for connection

SHARP	JW10, JW20H/30H, JW50H/70H/100H, J-board
MITSUBISHI	A series, Q series, Fx series, CPU port
OMRON	C series, CV series,
FUJI	MICREX-F, FLEX-PC
HITACHI	HIDIC-S10/2α, HIDIC-H
YOKOGAWA	FA-M3, FA-500
YASUKAWA	MEMOBUS
Matsushita	MEWNET-FP
TOSHIBA	PROSEC-T
TOYOPUC	TOYOPUC-PC
Koyo	KOSTAC-SU, SG, SR-T
Shinko	SELMART
KEYENCE	KZ-300
ALLEN-BRADLEY	PLC5, SLC500
SIEMENS	S5/S7, TI545/555
GE Fanuc	Series 90
SAMSUNG	SPC
LG	MASTER-K
FANUC	Power Mate

All specification described this sheets may be subject to change without notice.

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