

# MK070E-33DT HMI with Integrated PLC

# Kinco

## FEATURES

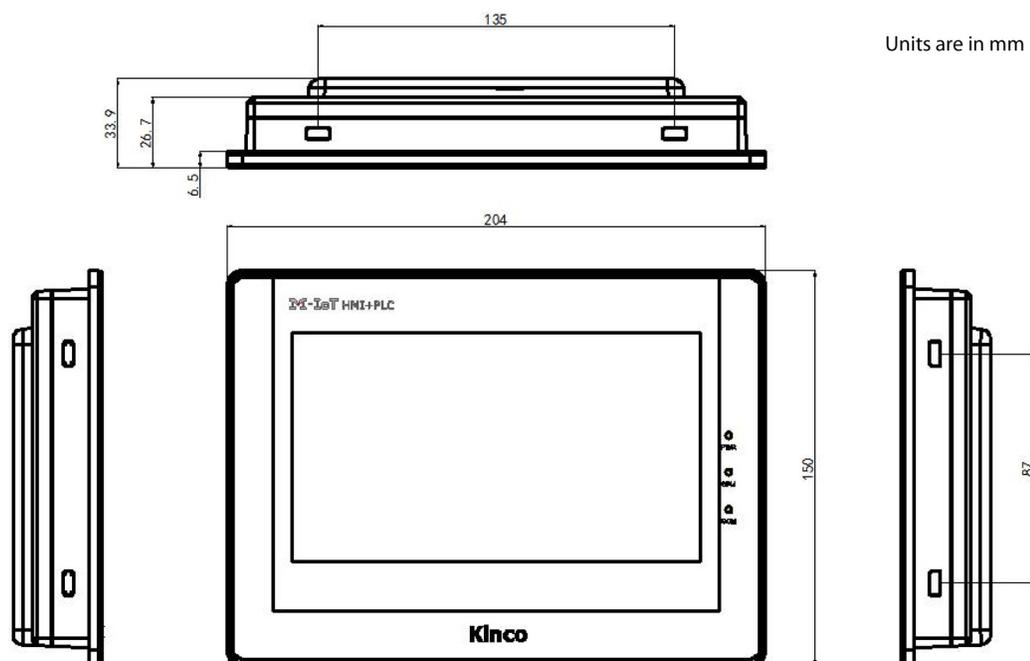
- 256K Colors
- LCD Lifetime up to 50,000 Hours
- 800x480 Pixels
- 7.0" LCD Display Screen
- HMI and PLC are attached
- IP65 Protection Level on Front Panel
- 24 VDC Input Voltage
- Backlight LED
- 128MB Flash and 64MB DDR2 Memory
- Communication Ports: USB2.0, RS485



## DESCRIPTION

The MK070E-33DT HMI with integrated PLC provides a reliable system to help your application run smoothly and efficiently. This HMI/PLC combination features a 256K color display mode that enhances your touch screen with rich color and incomparable resolution. The IP65-rated front screen is protected against dust ingress and may be subjected to low-pressure water jets. On the backside, the PLC is directly attached and integrated into the same package with the HMI. The PLC provides special I/O functions, a USB2.0 (USB-B Connector) programming port, four high-speed counters, four high-speed outputs, two RS485 communication/serial port(s), model dependent, integrated digital input and output channels, and more. KincoBuilder software provides absolute and relative positioning, homing, jogging, and quick stop instructions for programming the PLC functions, while DTools software is a convenient and powerful configuration software that allows the user to create first-class, efficient programs for the HMI. KincoBuilder and DTools software are both required to operate this integrated device, and are available for free on our website. With a quick and easy set-up, the MK070E-33DT series is an intelligent choice for users who need the functionality of an HMI and PLC in one powerful, streamlined package.

## DIMENSIONS



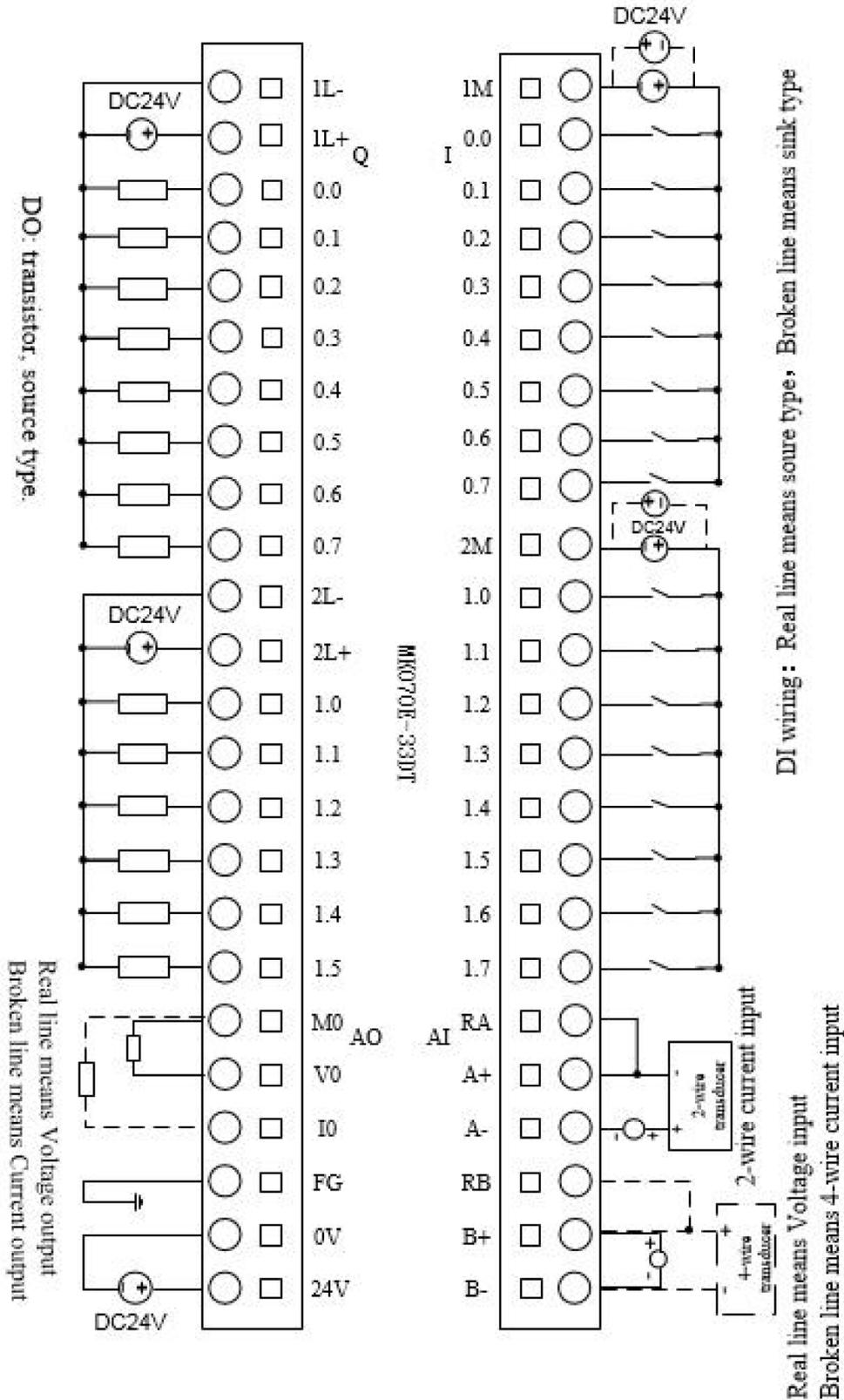
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MK070E-33DT

WIRING DIAGRAM



RS485/CAN  
(in DB9)

	FUNCTION	PIN
Port 1	A	6
	B	1
Port 2	A	9
	B	4
CAN	CANH	7
	CANL	2
GND	GND	5

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SPECIFICATIONS

Performance Specification	MK070-33DT
Display	7" TFT
Resolution	800x480 Pixels
Color	256K Colors
Backlight	LED
Brightness	250 cd/m <sup>2</sup>
Backlight Life	50,000 Hrs
Touch Panel	4-Wire Precision Resistance Network
Processor	700 MHz RISC
Memory	128MB Flash + 64MB DDR2
Expandable Memory	1 USB Host
Recipe Memory & RTC	256KB + RTC
Program Download	1 USB Slave / Ethernet / USB Flash Disk
Serial / COM Port	2*RS485 PORT1, PORT2, max. 115.2kbps PORT 1 supports Kinco programming protocol, MODBUS RTU master and slave protocol, free serial protocol. PORT 2 supports MODBUS RTU master and slave protocol, free serial protocol.
Built-in Digital Points	9*DI / 9*DO
Built-in Analog Points	2*AI, 1*AO (Supports voltage and current type)
Expansion Modules	Supports up to 8 KS Series Expansion Modules.
Electrical Specification	
Rated Power	10W
Rated Voltage	24 VDC
Voltage Range	DC 20.4V - 28.8V
Structure Specification	
Dimensions(mm)	204 x 150 x 33.9
Cutout Size(mm)	192 x 138
Weight (kg)	0.58
Environment Specification	
Operating Temperature	0°~ +50° C
Operating Humidity	10~90% Non-Condensing
Storage Temperature	-10°~ +60° C
Storage Humidity	10~90% Non-Condensing
Cooling Method	Natural Air Cooling
Certification	
Degree of Protection	IP65 (Front Panel)