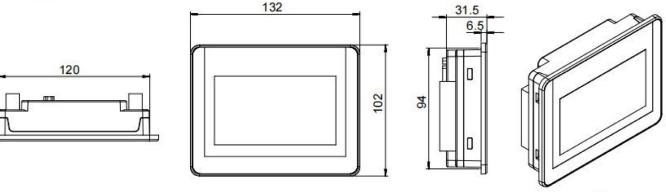
- 256K Colors
- LCD Lifetime up to 50,000 Hours
- 480x272 Pixels
- 4.3" LCD Display Screen
- HMI and PLC are attached
- IP65 Protection Level on Front Panel
- 24 VDC Input Voltage
- Backlight LED
- 128MB Flash and 64MB DDR2 Memory
- Communication Ports: USB2.0, RS485



linco

The MK043E-20DT 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. Built-in high-speed pulse outputs can reach a maximum frequency of 50 KHz. 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 MK043E-20DT series is an intelligent choice for users who need the functionality of an HMI and PLC in one powerful, streamlined package.



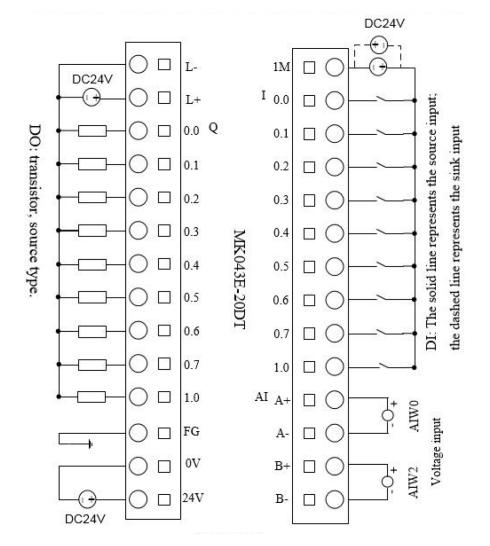


Units are in mm

L011944



MK043E-20DT



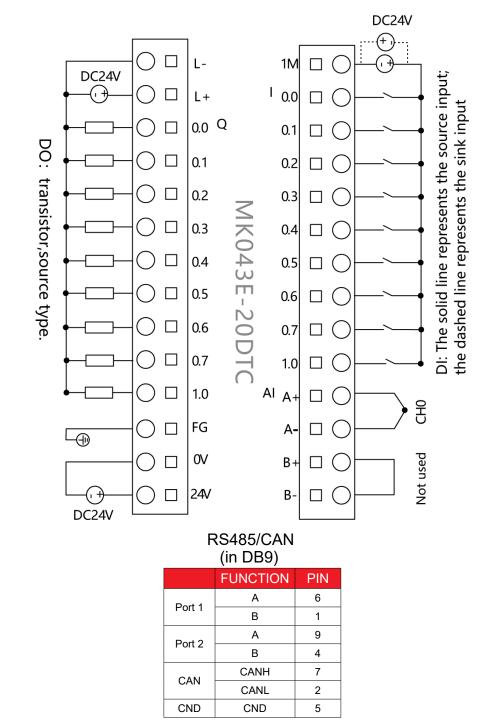
RS485/CAN (in DB9)

FUNCTION	
FUNCTION	PIN
А	6
В	1
А	9
В	4
CANH	7
CANL	2
GND	5
	A B A B CANH CANL

WIRING DIAGRAM



MK043E-20DTC



WIRING DIAGRAM



Performance Specification	MK043E-20DT	MK043E-20DTC	
Display	4.3"	TFT	
Resolution	480x272 Pixels		
Color	256K Colors		
Backlight	LED		
Brightness	400 cd/m²		
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		
Program Port	USB2.0 SLAVE		
CAN Communication Port	1 Supports CAN Free Communication		
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.		
High-Speed Counter	4 Supports Single-Phase, Double-Phase UP/DOWN, and AB Phase Pulse Input 4-Channel Maximum Counting Frequency: 50KHz		
High-Speed Output	4 Q0.0 Q0.1 Q0.4: Up to 50KHz (Each channel requires load resistance not exceed 3KΩ) Q0.5: Up to 10KHz	2 Q0.0 Q0.1 Q0.4: Up to 50KHz (Each channe requires load resistance not exceed 3KΩ) Q0.5: Up to 10KHz	
Built-in Digital Points	9*DI 24VDC 9*DO 24VDC		
Built-in Analog Points	2*Al (only support voltage type) Supports 1-5V / 0-10V Signal	2*TC Supports J/K/E/T Type Thermocouples	
Expansion Modules	Supports up to 8 KS Series Expansion Modules.		
Edge Interrupt	4, I0.0-I0.3 Can Be On/Off Interrupt		
Electrical Specification			
Rated Power	10W		
Rated Voltage	24 VDC		
Voltage Range	DC 20.4V - 28.8V		
Structure Specification			
Dimensions(mm)	132 x 102 x 31.5		
Cutout Size(mm)	119 x 93		
Weight (Ibs)	0.55		
Environment Specification			
Operating Temperature	0°~ +	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			

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