

User's Manual

fail

MICROSmart.

Safety Precautions

instruction sheet and the user's manual.

importance from Warning and Caution:

cause severe personal injury or death.

before using the MICROSmart.

Special expertise is required to use the MICROSmart.

maintenance, and inspection of the MICROSmart.

CAUTION B-1940(5)

• The MICROSmart is designed for installation in equipment. Do not install the MICROSmart outside of equipment.

Install the MICROSmart in environments as described in the user's manual. If the MICROSmart is used in places where it is subjected to high-temperature, high-humidity, condensation, corrosive gases, excessive vibrations, or excessive shocks it will result in electrical shocks, fire hazard, or malfunction.

The environment rating for using the MICROSmart is "Pollution degree 2." Prevent metal fragments and pieces of wire from dropping inside the MICROSmart housing. Ingress of such fragments and chips may cause fire hazard, damage, or malfunction.

 Use wires of a proper size to meet voltage and current requirements. Tighten terminal screws to the proper tightening torque of 0.2 N-m. Do not disassemble, repair, or modify MICROSmart modules.

1 TYPE

Transistor Sink out: FC6A-PTK4 Transistor Source out: FC6A-PTS4 DC input: FC6A-PN4

Applicable model FC6A Series MICROSmart CPU module SmartAXIS Series FT1A Controller TOUCH (Display type)

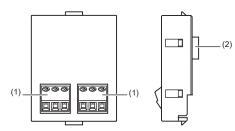
2 Specification

Operating Temperature: -10 to +55°C (no freezing) Storage Temperature: -25 to +70°C (no freezing) Relative/Storage Humidity: 10 to 95%RH (no condensation). Altitude or Air Pressure: 0 to 2,000 m (1,013 to 795hPa) during operation

0 to 3.000 m (1.013 to 701hPa) during transport. Vibration Resistance: 5 to 8.4 Hz half amplitude 3.5 mm, 8.4 to 150 Hz,

Installation Location: Inside cabinet (indoor use)

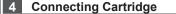
Parts Description 3



1)Terminal

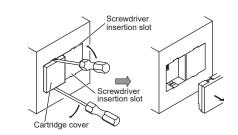
These terminals connect output devices, input devices or power. (2)Connector

Connects to the cartridge slot 1 or 2 connector on the CPU module

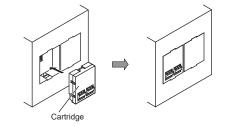


Step 1.

Insert two flathead screwdrivers into the screwdriver insertion slots in both locations of the unit, and while pushing the tabs of the cartridge cover, remove the cartridge cover straight off of the unit.



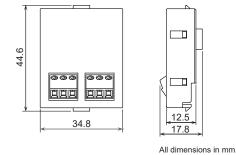
Step 2. Pay careful attention to the direction of the cartridge and attach it straight to the unit.



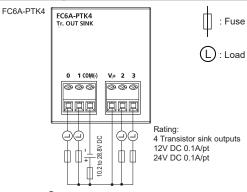
To remove the cartridge, perform the work detailed in step 1

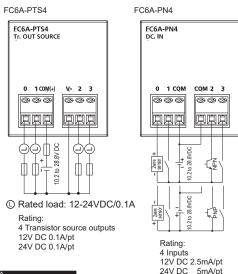
• Attach or remove the cartridge straight to the unit. If the cartridge is attached or removed when tilted, it may be damaged or cause operating problems. When not using Cartridge, attach the Cartridge cover. For UL/cUL. Horizontal mounting only.

5 Dimensions



6 Wiring





 Use an isolated type or SELV power supply source when power supply voltage less than 30V DC is required to power the terminal. For UL/cUL, use transistor outputs under resistive load and Limited energy • Use Use minimum 60°C wire copper conductor only.

Applicable Cable / Recommended Ferrule / Recommended Screwdriver / Tightening Torque

The recommended ferrule is made by Phoenix Contact or Weidmüller. To crimp the ferrules shown below, use a special crimping tool. (CRIMPFOX6 (1212034) or PZ 6 Rote (9014350000)) To the terminal block, use the recommended screwdriver made by Phoenix Contact or Weidmüller and tighten terminal screws tightening torque.

Applied cable		Recommended ferrule
UL1007/UL2464	AWG24	AI 0,25-6 (3203040), H0,25/10 HBL (9025740000)
	AWG22	AI 0,34-6 (3203053), H0,34/10 TK (9025750000)
	AWG20	AI 0,5-6 (3200687), H0,5/12D W (9019000000)
Screwdriver		Tighton torque
Sciewulivei		Tighten torque
SZS 0,4×2,5 (1205037), SDS 0,4×2,5×75 (9009030000)		0.2 N-m

) indicates the Type No. of PHOENIX CONTACT GmbH & Co. KG and Weidmüller Interface GmbH & Co. KG.

8 Precaution for Disposal

Dispose of the FC6A Series MICROSmart as an industrial waste.

EU Authorized Representative : APEM SAS

55, Avenue Edouard Herriot BP1, 82303 Caussade Cedex, France Manufacturer :

IDEC CORPORATION

2-6-64.Nishimiyahara.Yodogawa-ku, Osaka.Japan

MICROSmart User's manual can be downloaded from http://www.idec.com/FC6Amanuals



C Rated load: 12-24V DC/0.1A



Caution notices are used where inattention might cause personal injury or damage to equipment.

INSTRUCTION SHEET

MICRO Smart

FC6A Series

Digital I/O Cartridge

This sheet provides brief operating instructions of the MICROSmart

· Read this instruction sheet and the user's manual to make sure of

Keep this instruction sheet where it can be accessed by the end user.

quality control system, but users must add backup or failsafe provisions

to control systems use the MICROSmart in applications where heavy

damage or personal injury may be caused if the MICROSmart should

Install the MICROSmart according to the instructions described in this

Improper installation will result in falling, failure, or malfunction of the

· Make sure that the operating conditions are as described in the user's

manual. If you are uncertain about the specifications, contact IDEC

All MICROSmart modules are manufactured under IDEC's rigorous

correct operation before starting installation, wiring, operation,

programmable controller. For details, see the FC6A Series MICROSmart

WARNING

MARNING

• Turn off the power to the MICROSmart before starting installation. removal, wiring, maintenance, or inspection on the MICROSmart. Failure to turn off the power may cause damage, electrical shocks or fire hazard

· Emergency stop and interlocking circuits must be configured outside the MICROSmart. If such a circuit is configured inside the MICROSmart. failure of the MICROSmart may cause disorder of the control system, damage, or accidents.

 SUITABLE FOR USE IN CLASS 1, DIVISION 2, GROUPS A,B,C AND D HAZARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.

 Cet appareil convient uniquement à l'emploi dans des zones dangereuses de classe 1, groupes A,B,C et D; ou dans des zones non dangereuses.

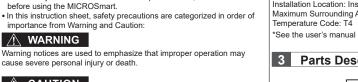
• WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS

KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS. Avertissement: risque d'explosion. Ne pas débrancher l'appareil tant que le circuit est sous tension, ou à moins d'être certain que lieu d'utilisation

soit exempt de concentrations inflammables.

 THIS EQUIOMENT IS AN OPEN -TYPE DEVICE MEANT TO BE INSTALLED IN AN ENCLOSURE SUITABLE FOR THE ENVIRONMENT THAT IS ONLY ACCESSIBLE WIHT THE USE OF A TOOL OR KEY.

 Cet appareil doit être installé dans un boîtier qui est adapté à l'environnement d'utilisation et uniquement accessible avec un outil douverture ou une clé.



acceleration 9.8 m/s² (1 G), X, Y, Z directions, 2 hours Shock Resistance: 147 m/s² (15 G), 11 ms, X, Y, Z, 3 axes, 6 directions, 3 times each

Maximum Surrounding Air Temperature: 55°C

*See the user's manual for more details on the product specifications.