

FX3S

User's Manual



ZH2014-11003

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Cautions

1. This product may cause an electric shock in handling. Please do not attempt to open it with power turned on.
 2. This product should be installed in a place fixed secured by a rack or panel.
 3. This product can be used under the following environmental condition. ① Indoor ② Pollution Degree 2 ③ At an altitude of 2000m or below
 4. Power input must be within the designated ranges.
 5. To turn on or turn off power supply for this product, please the circuit breaker or switch of a standard product of IEC 60947-1 or IEC 60947-3 product and install it within a close distance allowing convenient operation by user.
 6. Please be understood that if this product is dismantled or modified discretionary, after sales service will not be able to be provided.
 7. An output wire to be used for this product should be inflammable grade FV1 (V-1 grade or above), the thickness of the wire should be AWG No. 20 or above(0.50mm²).
 8. In order to prevent it from an inductive noise, please maintain the high-voltage wire and power wire separated.
 9. Please avoid installing the product in a place where a strong magnetism, noise, severe vibration and impact exist.
 10. When extending the sensor wire, use a shield wire and do not extend it unnecessary long.
 11. The sensor wire and signal wire should be away from the power and load wires using conduits separately installed.
 12. Please avoid using the product near a device generating strong high frequency noise (high-frequency welding machine, high-frequency sewing machine, high-frequency radiotelegraph, high capacity SCR controller)
 13. Product's damages other than those described in the guarantee conditions provided by the manufacturer shall not be responsible by us.
 14. If this unit is used to control machineries (Medical equipment, vehicle, train, airplane, combustion apparatus, entertainment, processing and transportation equipment, elevator and various safety device etc.) enabling to effect on human or property, it is required to install fail-safe device.
- ※ The Aforementioned precautions must be observed, and if you fail to do so, it may cause a product's breakdown.
 ※ The specifications, dimensions, and etc. are subject to change for enhancement without a prior notice.



- Selection of Output(Heating/Cooling)
- Precise Temperature Control
- Sensor Calibration
- Sensor Error Detection
- Auto Save and Restoration of Parameter Values
- Minimum On/Off Duration Time Setup
- Minimum Duty Cycle Output Setup

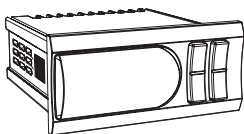
Technical Specifications

Power	100~240Vac, 50/60Hz
Current	MAX 6VA
Connection	Screw Bolt Connector(1.5mm ² Wire Use Possibility)
Output	Relay Output 1 Point (250Vac/16A)
Input	Temp. Sensor Input 1 Point
Dimensions	78(W)mm X 35(H)mm X 78(D)mm
Operation	Temperature: -10 ~ 50°C, Humidity: Below 90%RH
Storage	Temperature: -20 ~ 60°C, Humidity: Below 90%RH

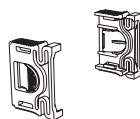
Ordering guide

FX3S-00	Basic Model (220Vac)
FX3S-00-T	Basic Model (12Vdc)
FX3S-00-H	Basic Model (24/48Vdc)

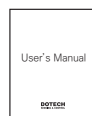
Components



Product

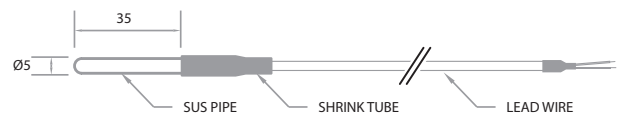


Bracket 2ea

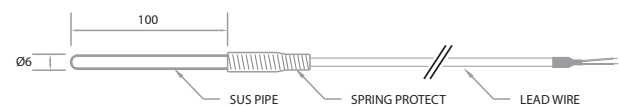


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Accessories



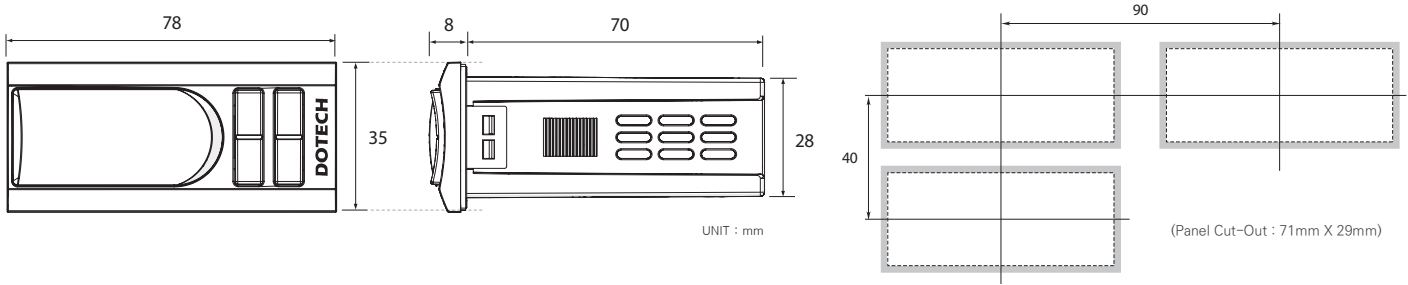
DPR-TH01-ET : NTC 5 KΩ at 25 °C / -50~105 °C / ±0.3 °C at 25 °C



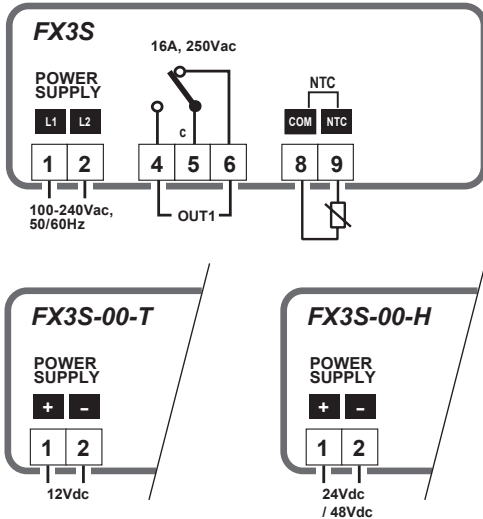
DPR-TH02-P6D100L : NTC 10 KΩ at 25 °C / -50~150 °C / ±1.5 °C at 25 °C

※ Specifications are subject to change without prior notice.

Dimensions and Panel Cut-Out Form

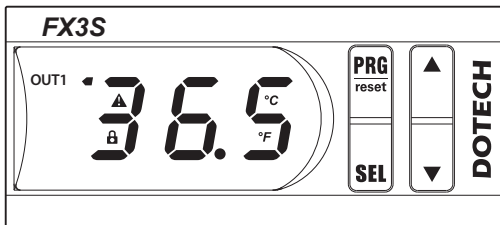


Wiring



No	Label	Description
1	POWER	100-240Vac, 50/60Hz
2		
4	OUT1 (Relay output)	Relay output OUT1 when closed
5		Common signal
6		Relay output OUT1 when open
8	SENSOR (NTC)	Common signal
9		Temperature sensor input

Constitution (Function of Display Lamp and Button)



LED	OUT1	Turn on when output #1 is ON (Flickering at standby)
	°C / °F	Celsius / Fahrenheit display units
	▲	ON at trip, Flickering at alarm
BUTTON	▲	Parameter set up locked
	PRG	Use at program setup
	SEL	Execute selected menu or Input setup value
	▲	Move between menus & Increase setup value
	▼	Move between menus & Decrease setup value
	PRG + ▼	If pushing for 10 sec. at the same time , setup value is initialized

Display Message

Code	Menu	Description / Instructions	Response at Detection	Reset Type
<i>dEF</i>	Natural defrost	Present temperature and <i>dEF</i> message display by turns at natural defrost.	Immediate Stop	

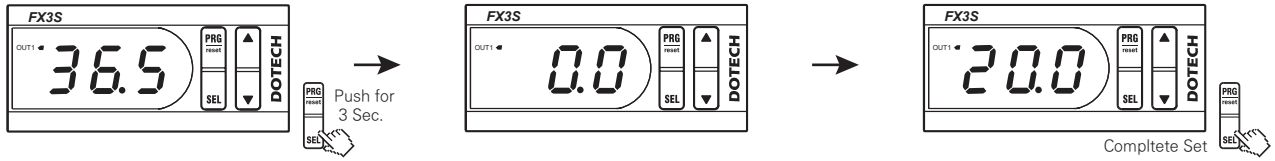
Trip / Alarm LARM MESSAGES

Code	Menu	Description / Instructions	Response at Detection	Reset Type
<i>SY5</i>	Internal Parameter Error	In Case of change of set value by an unknown case.	Immediate Stop	Automatic Reset
<i>oPn</i>	Sensor Open	In case of Input sensor open wire(Normal operation after sensor connecting)	Immediate Stop	Automatic Reset
<i>SHt</i>	Sensor Short	In case of Input sensor short circuit	Immediate Stop	Automatic Reset
<i>LLL</i>	Lower Input	Lower sensor input than measuring range	Immediate Stop	Automatic Reset
<i>HHH</i>	Higher Input	Higher sensor input than measuring range	Immediate Stop	Automatic Reset

※ In case of error occurring, the following messages are flickering at every 0.5 sec. intervals.

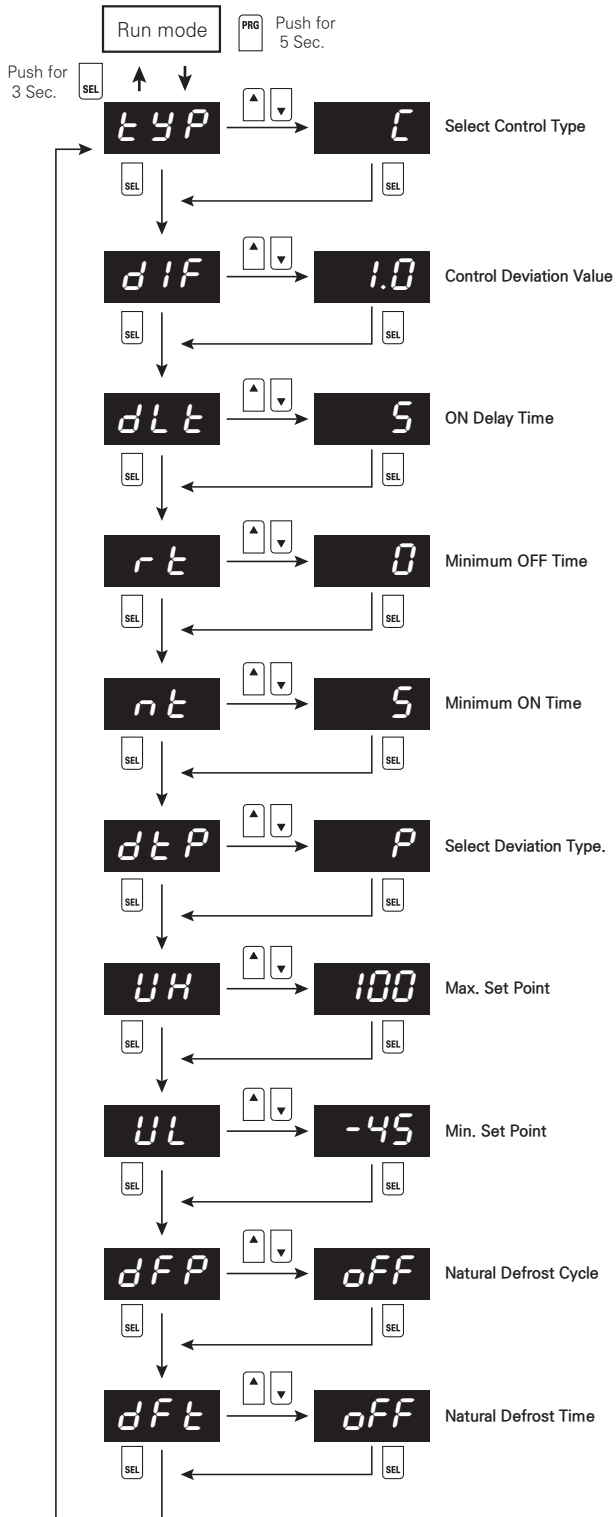
Parameter

Temperature Setting



Parameter Setting

Setting 1 Group



Setting 2 Group

