

Instruction Manual



DIGITAL THERMOSTAT
(Replacement for PA53)

Model : PXR3

Fuji Electric Co., Ltd. <http://www.fuji-electric.co.jp>

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Thank you for your purchasing "Fuji D&T&L THERMOSTAT". Please check that the product is exactly the one you ordered and use it according to the following instructions. (Please refer to a separate operation manual for details.) Dealers are kindly requested to ensure the delivery of this Instruction Manual to hands of the end-users.

NOTICE

The contents of this document may be changed in the future without prior notice.
We paid the utmost care for the accuracy of the contents. However, we are not liable for direct and indirect damages resulting from incorrect descriptions, omission of information, and use of information in this document.

Model Code for Digital Thermostat PXR3 (Replacement for PA53)

Input signal	Specification Input range	Alarm points	Model code
Thermocouple (TC)	0 to 1200 °C	2 points	PXR3T&S-E/2P&H
Thermistor	0 to 100 °C	2 points	PXR3T&S-E/2P&H

Specification

Power voltage	100 V (-15%/+ to 240 V (+10%/AC, 50/60 Hz)
Power consumption	20W or less (120V AC), 9W or less (220V AC)
Alarm output (Max. 2 points)	Relay contact (SPST contact) 220V AC / 30V DC 2A (invasive load)
Operating ambient temperature	-10 to 50°C, 50%/RH or less (no condensation)
Preparation temperature	-20 to 50°C
Transistor sensor	Accuracy: (variation)/2°C or less, constant value (50000±1%, resistance/50°C)
Conformity	UL, CE marking

Unpacking

Before using the controller, check if the type and specifications are as ordered.
Check that all of the following accessories are included in the package box.

- Digital thermostat main unit
 - Installation manual
 - Mounting adapter
 - Waterproof packing
 - Transistor sensor (only for the type that the input signal is thermistor)
- Note: The provided transistor sensor is the sensor dedicated to this equipment.

Related Documents

For more information, refer to the following documents.

Contents	Title	No.
Operation method	DIGITAL THERMOSTAT OPERATION MANUAL	TMSA2800-E
Details of alarm functions	PXR3 Supplementary Manual on Alarm Function	TMSA3000-E

Safety Precautions

Read before use

Before using this product, the user is requested to read the following precautions carefully to ensure the safety. Safety precautions must be taken by every user to prevent accidents.
The safety requirements are classified into "warning" and "caution" according to the following interpretations.



Warning

Suggesting that the user's mishandling can result in personal death or without injury.



Caution

Suggesting that the user's mishandling can result in personal injury or damage to the property.

WARNING

Over-temperature Protection

"Any control system design should take into account that any part of the system has the potential to fail".
The most dangerous condition of the system equipped with this product is continued heating, and the machine should be designed to automatically stop heating even if alarm is not issued at the time of failure of this product or due to any other reason".

The following are the most common cases where continued heating cannot be detected with this product:

- 1) Failure to issuing an alarm even when this product fails.
 - 2) Disengagement of the temperature sensor from the system.
 - 3) A short-circuit in the thermocouple wiring.
- In any preparation where physical injury or destruction of equipment might occur, we recommend the installation of independent safety equipment, with a separate temperature sensor, to disable the heating circuit in case of overheating.

Digital thermostat alarm signal is not designed to function as a protective measure in case of product failure.

1. Warning

1-1. Installation and wiring

- This product is designed to be installed at the conditions shown in the below table.
- | | |
|-----------------------|---|
| Operating temperature | -10 to 50 °C |
| Operating humidity | 50%/RH or less (Non condensation) |
| Installation category | 2 |
| Pollution degree | 2 |
| Recommended type | 250 V AC, 3.1 A, Time-delay fuse (100-240 V AC) |
| Operating environment | Indoor |
- Be sure to provide a basic insulation (For example, use a transformer that has a basic insulation or higher degree of insulation). The basic insulation is a clearance of at least 1.5 mm and a creepage of at least 3.0 mm. If such insulation is not provided, EN61010 safety compliance may become invalid.

About safety standard

Please observe the following instructions, to meet the requirements of safety standard. Failure to observe these instructions violates safety standards. (This product is not safety equipment.)

- Install a recommended fuse, which is specified in the instruction manual, between the external main power line and circuit, and this equipment.
- Do not connect a Safety Extra Low Voltage (SELV) circuit directly to the input terminals. If you connect a SELV circuit to any of the input terminals, ensure to provide a basic insulation between them. For example, use a transformer that has a basic insulation or higher degree of insulation. The basic insulation requires a clearance of at least 1.5 mm and a creepage of at least 3.0 mm.
- Be sure to install an appropriate external protective circuit to prevent excessive temperature rise etc.
- When performing wiring work, be sure to turn the power off and to wear protection gloves or safety glasses, to prevent an electric shock.
- Set an appropriate parameter for the type of the input to be connected.
- Do not use this equipment for the measurement of circuits, which fall under measurement categories II, III, or IV.
- Do not use this equipment for measurement of signals to which a voltage over 30 Vrms or over 60 Vrms is applied.
- Attach the terminal cover to prevent an electric shock. Before removing a terminal cover, turn off all the power.

- If the voltage exceeds 50 V DC, add a basic insulation between all the terminals and the ground terminal.
- If there is a danger of a serious accident resulting from a failure or a defect in this unit, provide the unit with an appropriate external protective circuit to prevent an accident.
- The unit is supplied without a power switch and fuses. Add a power switch and/or fuse if needed. Make wiring so that the fuse is placed between the main power supply switch and this product. (Main power supply: 2 pole breaker, fuse rating: 250V, 1A)
- A power switch or a circuit breaker should be installed within the power supply facility.
- A power switch or a circuit breaker should be properly installed within easy reach of an operator.
- A power switch or a circuit breaker should be identified as the one for this product.
- Electrical wiring must be made by the qualified personnel only and in accordance with your local and national standards.
- When wiring the power supply terminal, use vinyl insulated 600-volt cable or equivalent.
- To avoid the damage and restore the power voltage fitting to the rating.
- To avoid an electric shock and this product failure, do not turn ON the power before all wiring is completed.
- Be sure to check that the distance is kept to avoid electric shock or firing before turning the power ON.
- Keep away from terminals while the circuit is energized in order to avoid an electric shock and a malfunction.
- Repair or attempt to disassemble, fabricate, modify, or repair this unit because tampering with the unit may result in a malfunction, electric shock, or a fire.
- A relay has a limited life. When an output relay contact comes to the end of its life, it might remain opened or closed. Use a protective circuit outside this product for safety.
- Read this instruction manual thoroughly before use.

1-2. Maintenance precautions

- Be sure to turn off the power before this product is installed or removed in order to avoid an electric shock, malfunction, and fault.
- Regular maintenance is recommended for a longer service life of this controller. (Some parts of this controller have a limited life span, or they will be deteriorated with the lapse of time.)
- This product including accessories has one-year warranty if it is properly used.

2. Caution

2-1. Cautions on installation

Avoid the following places for installation.

- a place where the ambient temperature may reach beyond the range from -10 to 50°C while in operation.
- a place where a change in the ambient temperature is so rapid as to cause condensation.
- a place where corrosive gases and combustible gases, in particular, or combustible gases are emitted.
- a place where the unit is subject directly to vibration or shock. (vibration or shock may cause malfunction of the output relay.)
- a place exposed to water oil, chemicals, steam and vapor.
- (If interfered with rain, the installation by sales office to avoid an electrical leakage and firing.)
- a place where the unit is exposed to dust, salt air, or air containing iron particles.
- a place where the unit is subject to interference with static electricity, magnetism, and noise.
- a place where the unit is exposed to direct sunlight.
- a place where the heat may be accumulated due to the radiation of heat.
- a place where the ambient humidity may reach beyond 90% RH while in operation.

About EMC standard

- This equipment is designed as a Class A equipment that is for industrial locations. Do not use this equipment in domestic establishment such as residential areas, or it may cause radio interference. If you unavoidably use this equipment in domestic locations, take adequate measures on the outside of the equipment to reduce radio interference.
- Under the requirement of EMC standard, the maximum length of external cable including a sensor to be connected to this equipment is 30 m.

2-2. Cautions on installation on panel

- Insert the mounting bracket (provided) from the rear side until the main unit is securely fit into the panel. If there should be a gap, tighten two screws lightly until the gap is eliminated. (Do not tighten the screws excessively because the mounting bracket can be removed from the stopper by the force.)
 - The front panel needs NEMA 4X (equivalent to IP65) requirements. To ensure the waterproofness between the instrument and the panel, use packings that are provided as accessories in the following manner. (The improper fitting of packings will ruin the waterproofness.)
 - As shown in Figure 1, fit a packing to the case of the unit and then insert the PXR3 in the panel.
 - As shown in Figure 2, tighten the screws of the mounting adapter so that no gaps are given between the front panel of the instrument, packing, and the panel.
- Check that there are no deviation and deformation of packing as shown in Fig.3.

- If panel strength is weak, it may generate a gap between the packing and the panel, thus impairing water resistance.

Installation

Figure 1



Figure 2



Figure 3



(Standard: Vertical mounting. Such as the panel. (This product is horizontal.) When installing this product on horizontal, the maximum length is 30' (9.14m) from vertical.

Caution

- Don't block the openings around this product, or radiation effect will be reduced.
- Don't block the ventilation openings at the top of the terminal block.

Fuji Pxr3 Manual

Raffaela Di Napoli



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Table of Contents Fuji Pxr3 Manual

1. Understanding the eBook Fuji Pxr3 Manual
 - The Rise of Digital Reading Fuji Pxr3 Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Fuji Pxr3 Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fuji Pxr3 Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fuji Pxr3 Manual
 - Personalized Recommendations
 - Fuji Pxr3 Manual User Reviews and Ratings
 - Fuji Pxr3 Manual and Bestseller Lists
5. Accessing Fuji Pxr3 Manual Free and Paid eBooks
 - Fuji Pxr3 Manual Public Domain eBooks

- Fuji Pxr3 Manual eBook Subscription Services
- Fuji Pxr3 Manual Budget-Friendly Options
- 6. Navigating Fuji Pxr3 Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Fuji Pxr3 Manual Compatibility with Devices
 - Fuji Pxr3 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fuji Pxr3 Manual
 - Highlighting and Note-Taking Fuji Pxr3 Manual
 - Interactive Elements Fuji Pxr3 Manual
- 8. Staying Engaged with Fuji Pxr3 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fuji Pxr3 Manual
- 9. Balancing eBooks and Physical Books Fuji Pxr3 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fuji Pxr3 Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fuji Pxr3 Manual
 - Setting Reading Goals Fuji Pxr3 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fuji Pxr3 Manual
 - Fact-Checking eBook Content of Fuji Pxr3 Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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