Module Type Controller SRZ

Current transformer input module

INSTRUCTION **MANUAL**

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IMS01T16-E1

Thank you for purchasing this RKC product. In order to achieve maximum performance and ensure proper operation of your new instrument, carefully read all the instructions in this manual. Please place this manual in a co nvenient location for easy reference. This manual describes the mounting, wiring and specifications only. For detailed handling procedures and various function se ttings, please refer to separ ate Z-CT Instruction Manual (IMS01T21-F □)

The above manuals can be downloaded from our website:
URL: http://www.rkcinst.c om/english/manual_load.htm

■ Product Check

Z-CT Instruction Manual (this manual)1
Joint connector cover (KSRZ-517A)	2
Power terminal cover (KSRZ-518A)	1

■ Safety Precautions



WARNING

- An external protection device must be installed if failure of this instrument could result in damage to the instrument, equipment or injury to personnel.
- All wiring must be completed before power is turned on to prevent electric shock, fire or damage to instrument and equipment.
- This instrument must be used in accordance with the specifications to prevent fire or damage to instrument and equipment.
- This instrument is not intended for use in locations subject to flammable or
- Do not touch high-voltage connections such as power supply terminals, etc. to avoid electric shock.
- RKC is not responsible if this inst rument is repaired, modified or disassembled by other than factory-approved personnel. Malfunction can occur and warranty is void under these conditions.

CAUTION

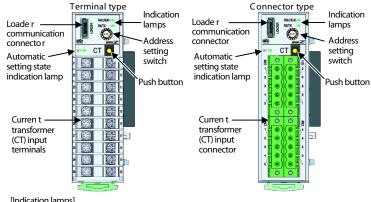
- This product is intended for use with indus trial machines, test and measuring equipment. It is not designed for use with medical equipment and nuclear energy.
- This is a Class A instrument. In a domestic environment, this instrument may cause radio interference, in which case the user may be required to take adequate measures.
- This instrument is protect ed from electric shock by reinforced insulation. Provide reinforced insulation between the wire for the input signal and the wires for instrument power supply, source of power and loads.
- Be sure to provide an appropriate surge contro
 I circuit respectively for the following: If input/output or signal lines within the building are longer than 30 meters. If input/output or signal lines leave the building, regardless the length.
- This instrument is designed fo r installation in an enclosed instrumentation panel. All high-voltage connections such as power s upply terminals must be enclosed in the instrumentation panel to avoid electric shock by operating personnel.
- All precautions described in this manual should be taken to avoid damage to the instrument or equipment.
- All wiring must be in accordance with local codes and regulations.
- To prevent instrument damage or failure, prot ect the power line and the input/output lines from high currents with a protection device e such as fuse, circuit breaker, etc.
- Prevent metal fragments or lead wire scraps fr om falling inside instrument case to avoid electric shock, fire or malfunction.
- Tighten each terminal screw to the specified torque found in the manual to avoid electric shock, fire or malfunction.
- For proper operation of this instrument, prov ide adequate ventilation for heat dispensation. • Do not connect wires to unused terminals as the is will interfere with proper operation of the instrument.
- Turn off the power supply before cleaning the instrument.
- Do not use a volatile solvent—such as paint thinner to clean—the instrument. Deformation or discoloration will occur. Use a soft, dry clot h to remove stains from the instrument.
- To avoid damage to instrument display, do not rub with an abrasive material or push front panel with a hard object.

NOTICE

- This manual assumes that the reader has a fundamental knowledge of the principles of electricity, process control, co mputer technology and communications.
- The figures, diagrams and numeric values used in this manual are only for purpose of illustration.
- RKC is not responsible for any damage or injury that is caused as a re sult of using this instrument, instru ment failure or indirect damage
- RKC is not responsible for any damage and/or in jury resulting from the use of instruments made by imitating this instrument.
- Periodic maintenance is required for safe and proper operation of this instrument. Some components have a limited service life, or characteristics that change over time.
- Every effort has been made to ensure accura cy of all informati on contained herein. RKC makes no warranty expressed or implied, with re spect to the accuracy of the information. The information in this manual is s ubject to change wit hout prior notice.
- No portion of this document may be reprinted, modified, copied, tr ansmitted, digitized, stored, processed or retrieved through any mec hanical, electronic, optical or other means without prior written approval from RKC.

1. PARTS DESCRIPTION

■ Module Mainframe



[Indication lamps]

• FAIL/RUN When normal (RUN): Self-diagnostic error (FAIL): Instrument abnormality (FAIL):

A green lamp is on green lamp flashes A red lamp is on

• RX/TX During data send and receive:

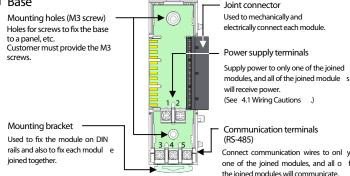
A green lamp turns on

During automatic setting execut ion: A green lamp is on Automatic setting failure: A green lamp flashes

[Push button]

Use when the heater break alarm set value or heater over current alarm set value should be automatically set

Base



2. COMMUNICATION SETTING

Set communication setting before mounting and wiring of the Z-CT.

CAUTION

Do not separate the module mainframe from the base with the power turned on, If so, instrument failure may result

2.1 Module Address Setting

Set an address for the module using a small blade screwdriver.

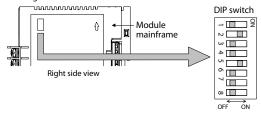




- For RKC communication, the value obta ined by adding "32" to the set address corresponds to the address used for the actual program.
 - For Modbus, the value obtained by adding "33" to the set address corresponds to the address used for the actual program.
 - To avoid problems or malfunction, do not duplicate an address on the same communication line.

2.2 Protocol Selections and Communication Speed Setting

Use the DIP switch on the righ t side of module to select communication speed, data bit, configuration and protocol. T he data changes become valid w hen the power is turned on again or when changed to RUN/STOP.



(The above figure is for the terminal type. However, the switch positions are the same for the connector type.)

1	2	Communication speed
OFF	OFF	4800 bps
ON	OFF	9600 bps
OFF	ON	19200 bps
ON	ON	39.400 hms

Factory set value: 19200 bos

3	4	5	Data bit configuration	Settable communication
OFF	OFF	OFF	Data 7-bit, without parity, Stop 1-bit	
OFF	ON	OFF	Data 7-bit, Even parity, Stop 1-bit	RKC communication
ON	ON	OFF	Data 7-bit, Odd parity, Stop 1-bit	
OFF	OFF	ON	Data 8-bit, without parity, Stop 1-bit	RKC communication
OFF	ON	ON	Data 8-bit, Even parity, Stop 1-bit	Modbus
ON	ON	ON	Data 8-bit, Odd parity, Stop 1-bit	Modbus

Factory set value: Data 8-bit, without parity

6	Protocol
OFF	RKC communication
ON	Modbus

Factory set value: RKC communication

Switch No. 7 and 8 must be al ways OFF. Do not set to ON.

 When two or more modules are co nnected on the same communication line, the DIP switch settings of all modules must be the same. However when a Z-CT module is joined to a Z-TIO-C/D module used for "PLC communication," set the communication speed and data bit configuration to the same settings as the Z-TIO-C/ D module and set the communication protocol to "RKC communication."

• Connect a termination resistor be (No.3 and 4) of the module at the host computer.

tween the communication terminals end of the communication line from the

3. MOUNTING



To prevent electric shock or instru ment failure, always turn off the power before mounting or removing the instrument.

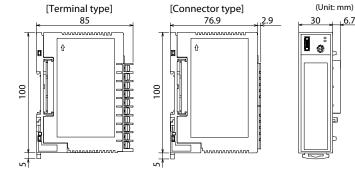
3.1 Mounting Cautions

- (1) This instrument is intended to be used under the following envir onmental conditions. (IEC61010-1) [OVERVOLTAGE CATEGORY II. POLLUTION DEGREE 2]
- (2) Use this instrument within the following environment conditions
- Allowable ambient temperature: -10 to +50 °C
- 5 to 95 % RH Allowable ambient humidity:
 - (Absolute humidity: MAX. W. C 29.3 g/m ³ dry air at 101.3 kPa)
- Installation environment conditions: Indoor use
- Altitude up to 2000 m (3) Avoid the following conditions when selecting the mounting location:
- Rapid changes in ambient temperat ure which may c ause condensation.
- Corrosive or inflammable gases.
- Direct vibration or shock to the mainframe. Water, oil, chemicals, vapor or steam splashes.
- Excessive dust, salt or iron particles.
- Excessive induction noise, static elec tricity, magnetic fields or noise. • Direct air flow from an air conditioner.
- Exposure to direct sunlight.
- Excessive heat accumulation.
- (4) Take the following points into considerati on when mounting this instrument in the panel • Ensure at least 50 mm space on top and bo ttom of the instrument for maintenance and environmental reasons
- Do not mount this instrument directly abo ve equipment that gener ates large amount of heat (heaters, transformers, semi-conductor f unctional devices, large-wattage resistors).
- If the ambient temperature rises above 50 °C, cool this instrument with a forced air fan, cooler, or the like. However, do not allow cooled air to blow this instrument directly.
- In order to improve safety and the immunity to withstand noise, mount this instrument as far away as possible from high voltage equipment, power lines, and rotating machinery. High voltage equipment: Do not mount within the same panel.

Separate at least 200 mm Power lines: Rotating machinery: Separate as far as possible

- (5) This instrument is Pe rmanently connected to equipment, please take the following
- A switch or circuit-breaker shall be included in the building installation.
- It shall be in close proximity to the equipm ent and within easy reach of the operator.
- It shall be marked as the disconnec ting device for the equipment.

3.2 Dimensions



- When the module is mounted on the panel, a llow a minimum of 50 mm at the top and bottom of the module to attach the module to the mainframe.
 - Space for connectors and cable must be considered when installing.
- Up to 16 Z-CT modules can be conn ected. The maximum number of SRZ modules (including other function modules) on the same communication line is 31.
 - The Z-CT module cannot transmit data to or receive data from a PLC. If connected to a Z-TIO-C/D module, use host communication or loader communication.

4. WIRING



To prevent electric shock or instrument failure, do not turn on the power until all the wiring is completed.

4.1 Wiring Cautions

- To avoid noise induction, keep input/output signal wires away from instrument power line, load lines and power lines of other electric equipment.
- If there is electrical noise in the vicinity of the instrument that could affect operation, use a noise filter.
 - Shorten the distance between t he twisted power supply wire pitches to achieve the most effective noise reduction
- Always install the noise filter on a grounded panel. Minimize the wiring distance between the noise filter output and the instrument power supply terminals to achieve the most effective noise reduction.
- Do not connect fuses or switches to the noi se filter output wiring as this will reduce the effectiveness of the noise filter.
- Power supply wiring must be twisted and have a low voltage drop.
- For an instrument with 24 V power supply, supply power from a SELV circuit. • A suitable power supply should be considered in the end-use equipment. The power supply must be in compliance with a limited-e nergy circuits (maximum available current
- Supply the power to only one of the joined modules. When power is supplied to any one of the joined modules, all of the joined modules will receive power
- Select the power capacity which is appropriate for the total power consumption of all joined modules and the initial current surge when the power is turned on.

Power consumption (at maximum load): 35 mA max. (at 24 V DC) Rush current 10 A or less

• For the power supply terminals and comm unication terminals, use the specified solderless terminals. Only these specified solderless terminals can be used due to the insulation between the terminals

φ5.5 MAX

 ϕ 3.2 MIN

Screw Size: M3 \times 7 (with 5.8 \times 5.8 square washer) Recommended tightening torque: $0.4 \text{ N} \cdot \text{m} (4 \text{ kgf} \cdot \text{cm})$ Applicable wire: Solid/twist ed wire of 0.25 to 1.65 mm Specified solderless terminals:

Manufactured by J.S.T MFG CO., LTD. Circular terminal with isolation V1.25 -MS3

(M3 screw, width 5.5 mm, hole diameter 3.2 mm) • For the connector type module, use the following our connector (plug) [sold s eparately]. Connector type: SRZP-01 (Front-screw type)

SRZP-02 (Side-screw type)

Screw size: M2.5

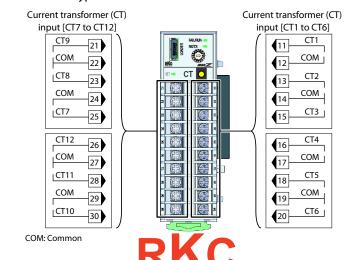
Recommended tightening torque: 0.43 to 0.5 N \cdot m (4.3 to 5.0 kgf \cdot cm) Used cable spec ifications

Lead wire type:

Solid (AWG 28 [cross-section: 0.081 mm ²] to 12 [cross-section: 3.309 mm ²]) or Twisted wire (AWG 30 [cross-section: 0.051 mm ²] to 12 [cross-section: 3.309 mm ²]) Stripping length: 9 to 10 mm (SRZP-01), 7 to 8 mm (SRZP-02)

4.2 Terminal Configuration

■ Terminal type

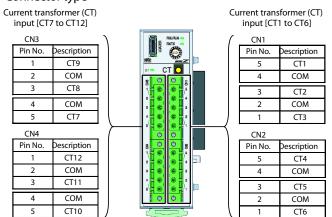


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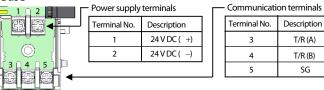
(800) 576 - 6308

■ Connector type



Base

COM: Common



For communication wiring, see Z-TIO Host Communication Quick Instruction Manual (IMS01T02-E □).

5. SPECIFICATIONS

Current transformer (CT) input

Number of inputs: Current transformer (CT): CTL-6-P-Z, CTL-6-P-N or CTL-12-S56-10L-N

(Current transformer (CT) is sold separately.) CTI - 6-P-7: Input capture range: 0.0 to 10.0 A

CTL-6-P-N: 0.0 to 30.0 A

CTL-12-S 56-10L-N: 0.0 to 100.0 A

Sampling cycle: 3 seconds

Performance (Ambient temperature: 23 ±2 °C However, excluding CT error)

Current transformer (C T) input accuracy:

0.0 to 10.0 A: +0.3 A

0.0 to 30.0 A, 0.0 to 100.0 A: $\pm 2\,\%$ of reading or $\pm 1.0\,$ A

Input resolution: CTL-6-P-Z: 1/30000 CTL-6-P-N: 1/7500

CTL-12-S 56-10L-N: 1/20000

Input influence (5 to 40 $\,^{\circ}$ C) caused by ambient temperature:

0.0 to 10.0 A: ±0.012 % of Span/ °C

0.0 to 30.0 A, 0.0 to 100.0 A: ±0.02 % of Span/ °C

Influence of power frequency (Load power):

47.5 to 52.5 Hz: 3.6 % of reading 57.0 to 63.0 Hz: 2.5 % of reading

Event (alarm) function

 Heater break alarm (HBA) [ti me proportioning output]

Number of HBA: 12 points

One point CT input per one heater break alarm (HBA)

0.0 to 100.0 A (0.0: heat er break alarm (HBA) function OFF) Setting range:

However, no heater break alarm func tion is activated if the time proportioning cycle ON time and OFF time are less than 0.5

Additional function: Number of heater break alarm (HBA) delay times

Alarm interlock release

Heater br eak, operating unit melting Alarm contents:

• Heater overcurrent alarm [time proportioning output]

Number of HBA: 12 points

(One point CT input per one heater overcurrent alarm)

Setting range: 0.0 to 105.0 A (0.0: heat er overcurrent alarm function OFF) However, no heater overcurrent alar m function is activated if the

time proportioning cycle ON time and OFF time are less than 0.5 seconds.

Additional function: Number of heater break alarm (HBA) delay times

Alarm interlock release

Communication

Based on RS-485 FIA standard Interface: Synchronous method: Star t/stop synchronous type

Communication speed: 4800 bps, 9600 bps, 19200 bps or 38400 bps Connection method: 2-wire system, hal f-duplex multi-drop connection RKC communication (ANS I X3.28-1976 subcategory 2.5, B1)

Protocol:

Modbus-RTU

General specifications

Power supply voltage: 24 V DC (Rating)

21.6 to 26.4 V DC [Including power supply voltage variation]

Power consumption (at maximum load): 35 mA max. (at 24 V DC)

Rush current 10 A or less

Allowable ambient temperature:

-10 to +50 °C Allowable ambient humidity: 5 to 95 % RH

(Absolute humidity: MAX.W.C 29.3 g/m³ dry air at 101.3 kPa)

Installation environment conditions:

Altitude up to 2000 m

Terminal type module: Approx. 140 g Weight: Connector type module: Approx. 120 g

Standard (pending)

Safety standards: UI: UI 61010-1

cUL: CAN/CSA-C22.2 No.61010-1

CE marking: LVD:

OVERVOLTAGE CATEGORYII, POLLUTION DEGREE 2,

Class II (Reinforced insulation)

• EMC: C-Tick: AS/NZS CISPR 11 (equivalent to EN55011)

6. COMMUNICATION DATA MAP

Modbus register address (HEX: Hexadecin This is the register address of Z-CT mo Digits The number of communication data digitient Attribute RO: Read only data (Host con R/W: Read and Write data (Host con Data) Data	dule communication data. ts in RKC communication. nputer The controller)
	
RKC communication	Modbus
ASCII code data (Example: 7 digits)	16-bit data
Most significant Least significant	b15 ····· b0

Symbols used in MAP

♠: Data for each channel

♦: Data for each module

For details on the communication data, see the SRZ Instruction Manual (IMS01T04-E □).

■ Communication data (R KC communication/Modbus)

Name	RKC Iden- tifier	Mod register a HEX		Digits	Attri- bute	Data range	Factory set value
Model code ◆	ID		_	32	RO	Model code (character)	_
ROM version ◆	VR	_	_	8	RO	ROM version	_
Current transformer (CT) input value monitor •	M4	0000 : 000B	0 : 11	7	RO	TL-6-P-Z: 0.0 to 10.0 A CTL-6-P-N: 0.0 to 30.0 A CTL-12-S56-10L-N: 0.0 to 100.0 A Displays the input value of current transformer (CT).	_
Load factor conversion CT monitor •	M5	000C : 0017	12 : 23	7		0.0 to 100.0 A Displays the mean current value or root mean squared value.	
Heater break alarm (HBA) state monitor 🎄	AF	0018 : 0023	24 : 35	1	RO	0: Normal 1: Break 2: Melting	
Heater overcurrent alarm state monitor A	AG	0024 : 002F	36 : 47	1		1: Normal 1: Heater overcurrent	_
Error code ◆	ER	0030	48	7	RO RK	C communication 1: Adjustment data error 2: Data back-up error 4: A/D conversion error Modbus	_
						b0: Adjustment data error b1: Data back-up error b2: A/D conversion error b3 to b15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 7]	
Integrated operating time monitor •	UT	0031	49	7	RO 0	o 19999 hours	_
Backup memory state monitor ◆	EM	0032	50	1		The content of the backup memory does not coincide with that of the RAM. 1:The content of the backup memory coincides with that of the RAM.	_
Automatic setting state monitor	J	0033	51	1	RO	0: Normal state 1: Automatic setting execution 2: Automatic setting failure	
_	1	0034	52	_	_	Do not use this register address as it is used for the internal processing.	
Unused	_	0035 : 0093	53 : 147	_	_	_	_

automatic setting selection						button and communication.) 1:Automatic setting for heater break alarm is enabled. 2:Automatic setting for heater overcurrent alarm set value is enabled. 3:Automatic setting for heater break alarm (HBA) and heater overcurrent alarm set values are enabled.	
Automatic setting transfer	BU	00A0 :: 00AB	160 : 171	1	R/W	D: Normal state 1: Automatic setting execution 2: Automatic setting failure (RO)	0
Heater break	A8	00AC	172	7	R/W	0.0 to 100.0 A	0.0
alarm (HBA) set value		00B7	183			O.O: Heater break alarm function (HBA) OFF (HBA function OFF: The current transformer (CT) input value monitoring is available.)	
Heater break	BZ	00B8	184	1	R/W	D: Heater break alarm (HBA)	1
alarm (HBA) selection		00C3	: 195			unused 1:Heater break alarm (HBA) 2:Heater break alarm (HBA) (With alarm interlock function)	
Heater overcurrent alarm set value •	A6	00C4 : 00CF	196 : 207	7	R/W	0.0 to 105.0 A 0.0: Heater overcurrent alarm function OFF	0.0
Heater overcurrent alarm selection	ВО	00D0 :: 00DB	208 : 219	1	R/W	D: Heater overcurrent alarm unused 1: Heater overcurrent alarm	1
*						2: Heater overcurrent alarm (With alarm interlock function)	
Heater break alarm (HBA) interlock release	CX	00DC : 00E7	220 : 231	1	R/W	D: Normal state 1: Interlock release execution	0
Heater overcurrent alarm interlock release	CY	00E8 : 00F3	232 : 243	1	R/W	D: Normal state 1: Interlock release execution	0
Unused	_	00F4 :: 0177	244 :: 375	_	_	_	_
Set lock	LK	0178	376	1	R/W	0: Unlock	0
▼ CT type	BV	0179 :	377 :	1	R/W*	1: Lock D: CTL-6-P-N (0.0 to 30.0 A) 1: CTL-12-S56-10L-N	Depends on model code
		0184	388			(0.0 to 100.0 A) 2:CTL-6-P-Z (0.0 to 10.0 A)	When not specifying: 0
CT ratio ♠	XT	0185 : 0190	389 : 400	7	R/W*	0 to 9999	Note 1
Number of heater	DI	0191	401	7	R/W*	0 to 255 times	5
break alarm (HBA) delay times 🌲		: 019C	: 412				
Automatic setting factor for heater break alarm	BW	019D : 01A8	413 : 424	7	R/W*	1 to 100 %	75
(HBA) Automatic setting factor for heater	B9	01A9 :	425 :	7	R/W*	100 to 1000 %	200
overcurrent alarm	DD.	01B4	436	-	D 4442	0.04-100.04	1.0
Determination current value for automatic setting	BP	01B5 : 01C0	437 : 448	7	R/W*	0.0 to 100.0 A	1.0
Automatic setting time	BQ	01C1 :	449	7	R/W*	10 to 250 seconds	60
♠ Module address	BX	01CC 01CD	460 461	7	R/W*	0 to 99	0
assignments for CT input •		01D8	472			Set the address of the Z-TIO or Z-DIO module to which the current value is captured.	
Module channel	BY	01D9	473	7	R/W*	1 to 99	1
assignments for CT input •		: 01E4	: 484			Set the channel number of the Z-TIO or Z-DIO module to which the current value is captured.	
	IC	01E5	485 :	1	R/W*	0: Mean conversion 1: Root mean squared value	0
Load factor conversion							
	ZX	01F0 01F1	496 497	7	R/W*	conversion 0 to 250 ms	10

HEX DEC

0094

leater break

7. AUTOMATIC SETTING FUNCTION

Heater break alarm (HBA) set value and heat er overcurrent alarm set value can be automatically set by the push button or communication.

- When the alarm values are automatically set by push button, batch setting of the CT input channels is possible.
- When the alarm values are automatically set by communication, each CT input channel can be separately set.

When using the heater break alarm (HBA) or heater overcu rrent alarm, be input, module channel assignments for CT input).

	■ Procedure for automatic setting of the heater break alarm (HBA) set value by push button					
Ĺ	Before performing automatic setting, comple te all connections and settings so that the system is ready for operation.					
1.		heater br eak alarm (HBA) set value, set the following st computer (loader communication can also be used). g to your operation conditions.				
	Parameter	Details				
	Heater break/Heater overcurrent alarm automatic setting selection	Check that the set value is set to "1" or "3." (Factory set value: 1)				
	Heater break alarm (HBA) selection	Check that the set value is set to "1" or "2." (Factory set value: 1)				
	CT type	Verify that the set values of the CT model have been set as you specified.				
	CT ratio	Verify that the number of turns (ratio) has been set as you specified. CTL-6-P-N, CTL-6-P-Z: 800 CTL-12-S56-10L-N: 1000				
	Number of heater break alarm (HBA) delay times	Configure the set values according to your operation conditions. (Factory set value: 5 times)				
	Automatic setting factor	Configure the set values according to your operation				
	for heater break alarm (HBA)	conditions. (Factory set value: 75 %)				
	Determination current value for automatic setting	Configure the set values according to your operation conditions. (Factory set value: 1.0 A)				
	Ĭ	Configure the set values according to your operation				
	Automatic setting time	conditions. (Factory set value: 60 seconds)				
	Module address assignments	Set the address of the Z-TIO or Z-DIO module to which the				
	for CT input	current value is captured.				
	Module channel assignments	Set the channel number of the Z-TIO or Z-DIO module to				
	for CT input	which the current value is captured.				
2.	2. Switch the SRZ unit to the RU N state (start control) and turn on output to the heater.					
3.	3. Hold down the push button on the front of the Z-CT modul e for at least two seconds Automatic setting of the heater break alarm (HBA) set value will begin. During automatic setting, the "SET" lamp on the front of the Z-CT module will light.					
	During automatic setting, automatic setting can be stopped by holding down push button for at least two seconds.					
4.	When the "SET" light on the front ended.	of the Z- CT module turns off, automatic setting ha				

The automatic setting function can be used when time proportioning output is used.

If the ON time or OFF time of time pr oportioning output is 0.5 seconds or less, automatic setting is not possible. In addition, alarm detection is not possible.

Factory set value

Automatic setting is disabled.

automatically set by the push

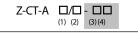
If automatic setting was not successf ul, the "SET" lamp will flash. To clear the flashing, hold down the push button for at least two seconds to start automatic setting again, and then hold down the push button for at least two seconds to stop automatic setting.

■ Checking the heater break alarm (HBA) and heater overcurrent alarm

The Z-CT module does not have a terminal for output of an alarm signal, and thus alarm states must be check ed on the host computer (heater br eak alarm (HBA) state monitor, heater overcurrent alarm state monitor).

An alarm state of the Z-CT module cannot be output from the digital output terminals (DO1 to DO8) of the Z-DIO module.

8. MODEL CODE



: Code 3 and 4 are for quick start codes to specify software configurable settings. If not specified, these codes will not be printed on labels and all settings will be factory default.

(1) Wiring type T: Terminal type C: Connector type

(2) Quick start code N: No quick start code

1: Specify quick start code

(3) Current transformer (CT) type [Quick start code] No code: No quick start code

CTL-6-P-N (0.0 to 30.0 A) CTL-12-S56-10L-N (0.0 to 100.0 A) CTI -6-P-7 (0.0 to 10.0 A)

(4) Communication [Quick start code] No code: No quick start code

RKC communication (AXSI X3.28)

Modbus

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