For Infrared thermometers

Display	TMCXseries
Parameter setting unit	PWCX
Software for parameter setting	PWSX/PWUX

Easy to see, easy to use

Maximize the performance of infrared thermometers !

JAPAN SENSOR CORPORATION

Challenge, Create, Customize

Use them to display and configure our infrared thermometers.

5 types of displays and setting units

Easy to adjust for the emissivity setting with the teaching function.

Easy to connect to a thermometer.

Displays and Setting Units TMCXseries

TMCX-H/N

TMCX-H

- Easy to look at the display with large LED charactrs.
  (LED is brighter than the previous model)
- RS485 equipped.
  The temperature data can be sent digitally to external devices.
- Sighting light can be controlled by external devices via RS485.
- 100 to 240 V AC

TMCX-N

- Reduce cost compared to the previous model.
- Analog output equipped.
- CE Mark Compliant

TMCX-TDE

- Easy operation with the color touch screen.
- The measured temperatures can be displayed on a graph view.
- The measured data can be stored in a microSD card.
- Wall mount type.
- CE Mark Compliant

Parameter setting unit

PWCX

- Capability to configure multiple thermometers to provide cost savings.
- Operation time is doubled by increasing batteries (8 x AA size).
- Reduced cost compared to the previous model.

Supporting thermometers for quick response of 0.1ms

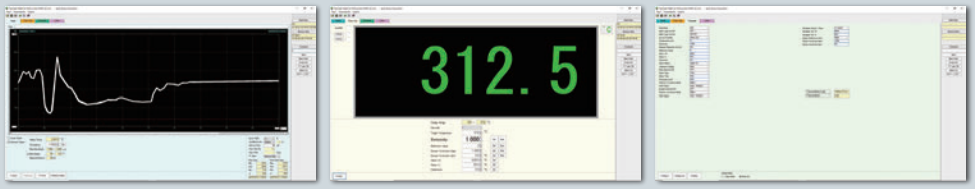
Licensed software for parameter setting.

Cost-effective

Parameter setting software

PWSX

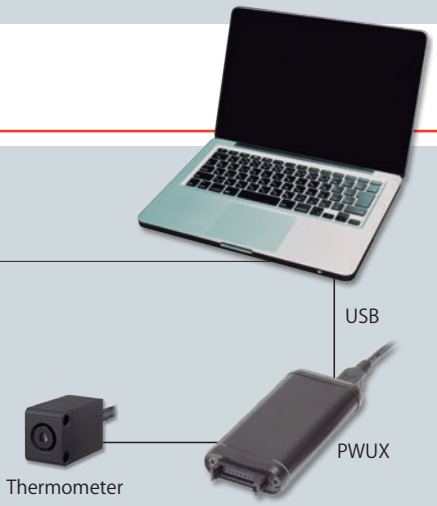
- Easy to retrieve data
- Data can be stored in CSV format in a PC.
- Automatic detection of port numbers and easy initialization.
- Supported OS : Windows 7/8/10



USB-RS232C Converter

PWUX

- Digital signal of RS232C can be retrieved to a PC on USB.
- Smaller size than the previous model.

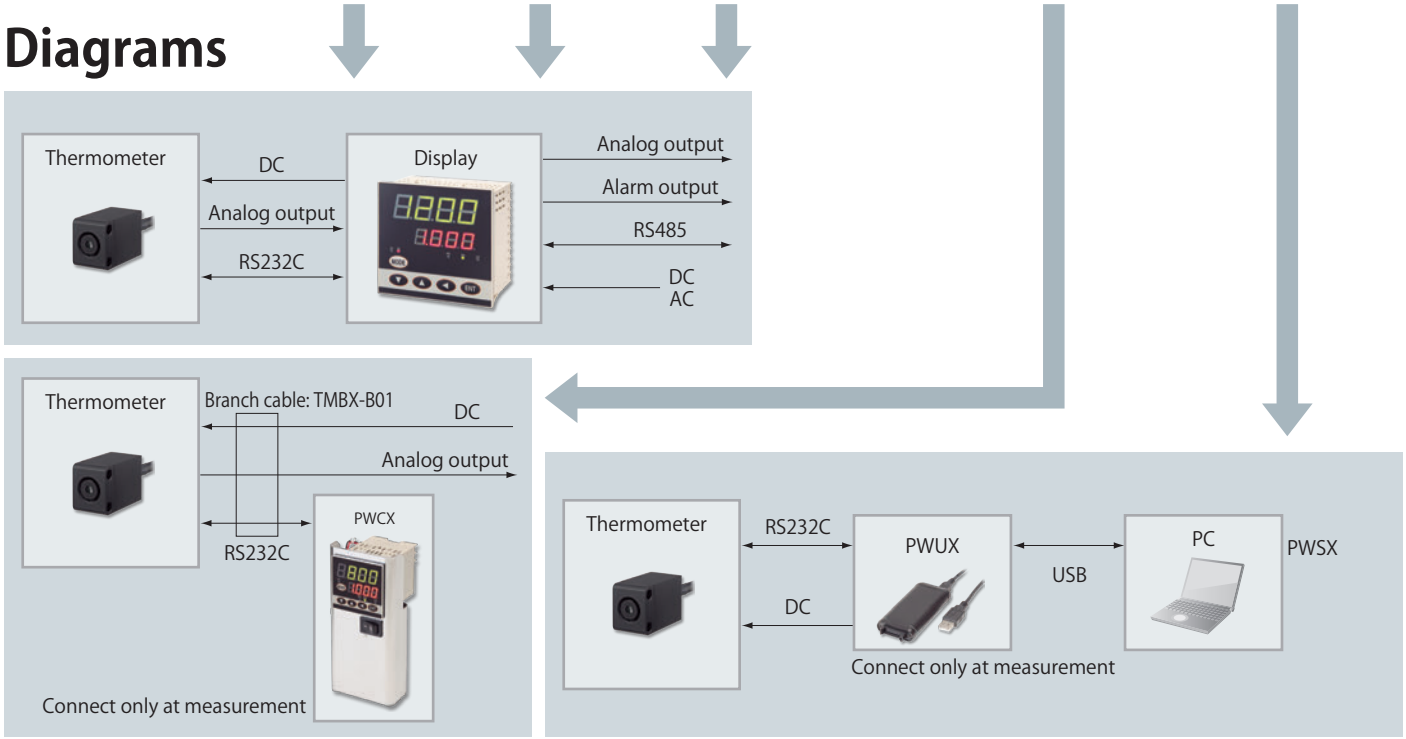


Specifications

e-CON: an 8 pin easily attachable connector.

Model	TMCX-HA/HD	TMCX-NDE	TMCX-TDE	PWCX	PWUX
					
Parameter setting	○	○	○	○	○
Dimensions	96mm□	48mm□	98×48mm	48mm□	PC Screen
Supply voltage	HA：AC100～240V HD：DC13～27V	DC8～27V	DC22.8～25.2V (DC24V±5%)	Batteries	USB
Connection with a thermometer	e-CON with cable	e-CON	e-CON with cable	e-CON	
Analog output1	○	○	○	○	
Analog output2	○				
Alarm output1	○	○	○	○	
Alarm output2	○		○		
Emissivity analogsetting	○	○	○	○	
RS485	○				
Temperature chart			○		○
Data logging			○		○
Parameter logging					○

Diagrams



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- If you have any questions, contact us at the address or links shown below.

TMCX-Cata-V201906P201906 1K

TMCXseries

	High-end		Low-end
	 RoHS		 CE RoHS
Model	TMCX-HA	TMCX-HD	TMCX-NDE *1
Communications	RS232C(output swing ±5V) Maximum speed 5ms		
Connection with thermometer	ring tongue M3 terminal connecting with the TMBX-H (an accompanying cable)		e-CON
Emissivity	guarantee range: 0.3 ~ 1.0 setting range: 0.050~1.000(setting resolution0.001) correction function of reflection analog setting(analog input 0 ~ 5V = emissivity 0 ~ 1.0) response time: Max 2s + smoothing setting value		
Analog output1	via a thermometer output. Check the TMHX and the FTKX series' instruction manual for specifications.		
Analog output2	configurable: 4 ~ 20mA, 0 ~ 20mA, 0 ~ 1V, mV/℃ scaling function response time: 250ms + averaging time (0~95%)		none
Alarm outputs	2		1
Alarm output mode	hysteresis: 0 ~ 99℃, resolution1℃ opto-isolator: 24V DC, Max. 50mA		
Alarm output optional	relay: 240V AC, Max. 2A		none
Alarm output optional response time	5ms (opto-isolator) 10ms(relay)		
RS485	telecommunication: 4.8, 9.6, 19.2 kbps check the TMCX telecommunications specifications for functional insulation and software		none
Peak hold reset mode	time: 0.01 ~ 10.00s(configurable) , discharge: 0.01 ~ 10.00s, level0.20 ~ 1.00		
	External input: dry contact or open collector		none
Sample and hold	Dry contact or open collector		none
Sensor correction function	span: 0.500 ~ 2.000, Zero: -50.0 ~ +50.0(℃ or ℉ selectable)		
Display Options	Upper line: Temperature / Alarm H / Alarm L / Blank Bottom line: Temperature unit / Emissivity / Alarm H / Alarm L / Blank		
Resolution	switchable 1℃ or 0.1℃ (above 1000℃ is to 1℃) Max. 3276℃		
Temperature Units	℃ or ℉		
Supply Voltage	AC100 ~ 240V 20W max. ±10% 50／60Hz	DC13 ~ 27V 9.5W max.	DC8 ~ 27V 9.5W max.
Dimensions	96W×96H×69Dmm		48W×48H×66Dmm
Weight	230g		150g
Acceptable panel thickness	1.0 ~ 3.5mm		
Ambient temperature	-10 ~ 50℃		
Ambient humidity	≦90%RH (non-condensing)		
Storage temperature	-20 ~ 65℃		

CE CE Mark Compliant (EMC EN61326-1: 2013, RoHS EN50581: 2012) *1: LVD (Low Voltage Directive) EN61010-1:2010

Specifications		Optional:TMCX-HA/HD				
	Alarm output 1	-0			opto-isolator (standard)	
		-1			relay	
	Alarm output 2		0		opto-isolator (standard)	
			1		relay	
	spare			0	(standard)	

TMCXseries

	Touch screen type
	 CE RoHS
Model	TMCX-TDE
Communications	RS232C (output swing ±5V) Maximum speed 5ms
Connection	e-CON
Emissivity	setting range: 0.050 ~ 1.000 (setting resolution0.001) correction function of reflection
Analog output	via a thermometer output. Check the TMHX and the FTKX series' instruction manual for specifications.
Alarm outputs	2
Alarm output	2 alarm outputs, hysteresis range: 0 ~ 99℃, resolution1℃ relay (24V DC, 1A / isolator 500V DC)
Alarm output optional response time	230ms (90%)
Peak hold reset mode	time: 0.01 ~ 10.00s (configurable) , discharge: 0.01 ~ 10.00s, level 0.20 ~ 1.00
Sensor correction function	span: 0.500 ~ 2.000, Zero: -50.0 ~ +50.0(℃ or ℉ selectable)
Display Options	temperature units ℃ or ℉ (selectable) graph options (displayed instantaneous temperature, hold) The background turns bright red when an alarm is activated. All the settings are adjustable via the built-in touch screen interface.
Resolution	switchable 1℃ or 0.1℃ (above 1000℃ is to 1℃) Max. 3276℃
Temperature Units	℃ or ℉
Supply Voltage	DC22.8 ~ 25.2V（DC24V±5%）100mA max.
Dimensions	98W×64H×36Dmm
Weight	324 g
Installation type	wall mount
Operation	touch screen type
Ambient temperature	0 ~ 60℃
Ambient humidity	≦95% (non-condensing)
Storage temperature	-20 ~ 80℃
Standard attachment	lithium Coin Cell Battery (BR1225 3V)
Memory card	microSD card, Max. 32GB (optional)

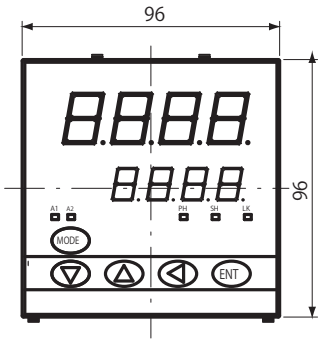
CE CE Mark Compliant (EMC EN61326-1: 2013, RoHS EN50581: 2012)

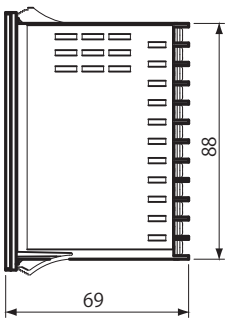
PWCX/PWUX

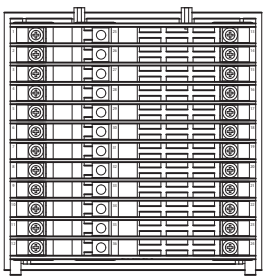
	Parameter setting unit	USB-RS232C converter
	 RoHS	 RoHS
Model	PWCX	PWUX
Communications	RS232C (output swing ±5V) Maximum speed 5ms	RS232C (output swing ±12V)
Connection with thermometer	e-CON	
Emissivity	guaranteed range: 0.3 ~ 1.0 setting range: 0.050 ~ 1.000 (setting resolution0.001) correction function of reflection	
Analog output	via a thermometer output. Check the TMHX and the FTKX series' instruction manual for specifications.	none
Alarm outputs	1	none
Alarm output	hysteresis: 0 ~ 99℃, resolution1℃ opto-isolator: 24V DC, 50mA	none
Alarm output optional response time	5ms	none
Alarm output	time: 0.01 ~ 10.00s (configurable) , discharge: 0.01 ~ 10.00s, level 0.20 ~ 1.00	
Sample and hold	by pressing the ENT key	by operating with a PC
Sensor correction function	span: 0.500 ~ 2.000, Zero: -50.0 ~ +50.0(℃ or ℉ selectable)	
Display Options	Upper line: Temperature / Alarm H / Alarm L / Blank Bottom line: Temperature unit / Emissivity / Alarm H / Alarm L / Blank	on the PC screen
Resolution	switchable 1℃ to 0.1℃(above 1000℃ is to 1℃) Max. 3276℃	none
Temperature Units	℃ or ℉	
Supply Voltage	8 batteries	USB
Dimensions	64W×137H×70.4Dmm	41W×15H×80Dmm (except:nubs)
Weight	500g	50g (except:USB cable)
Ambient temperature	-10 ~ 50℃	0 ~ 50℃
Ambient humidity	≦90%RH (non-condensing)	≦80%RH (non-condensing)
Storage temperature	-20 ~ 65℃	-10 ~ 60℃
Attachment	8 batteries	USB miniB cable 1.5m

Dimensions

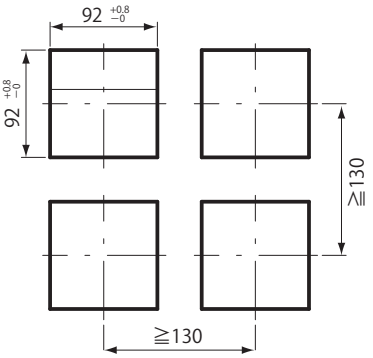
TMCX-H



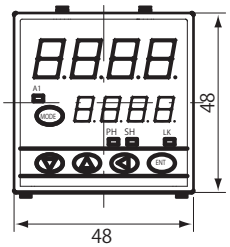


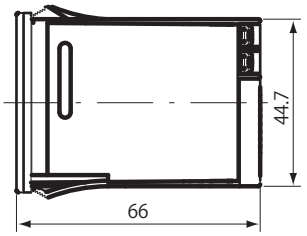


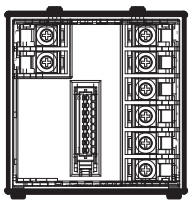
Panel cut-out size



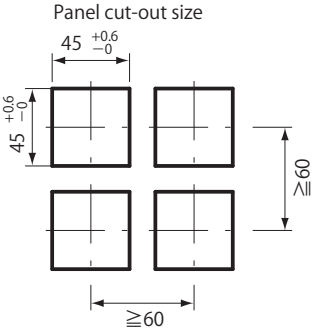
TMCX-NDE





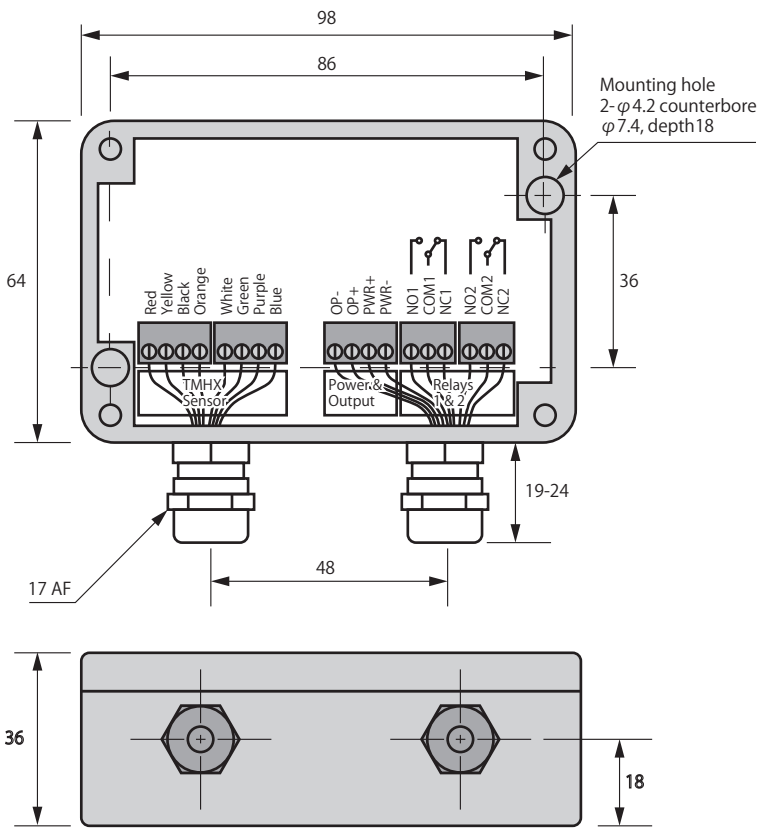


Panel cut-out size

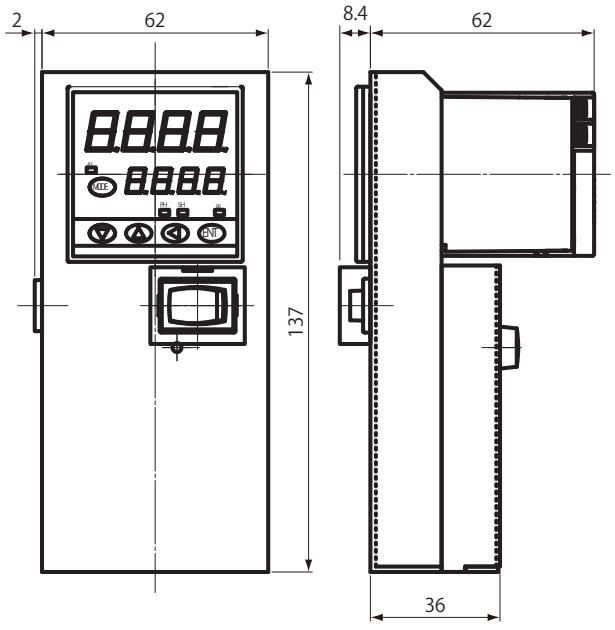


Dimensions

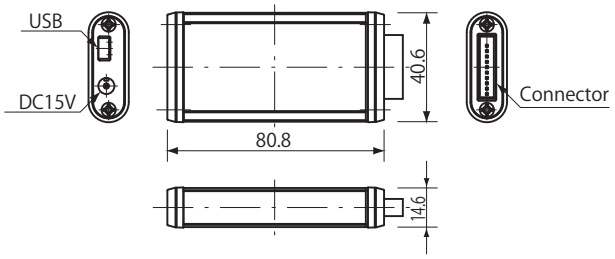
TMCX-TDE



PWCX

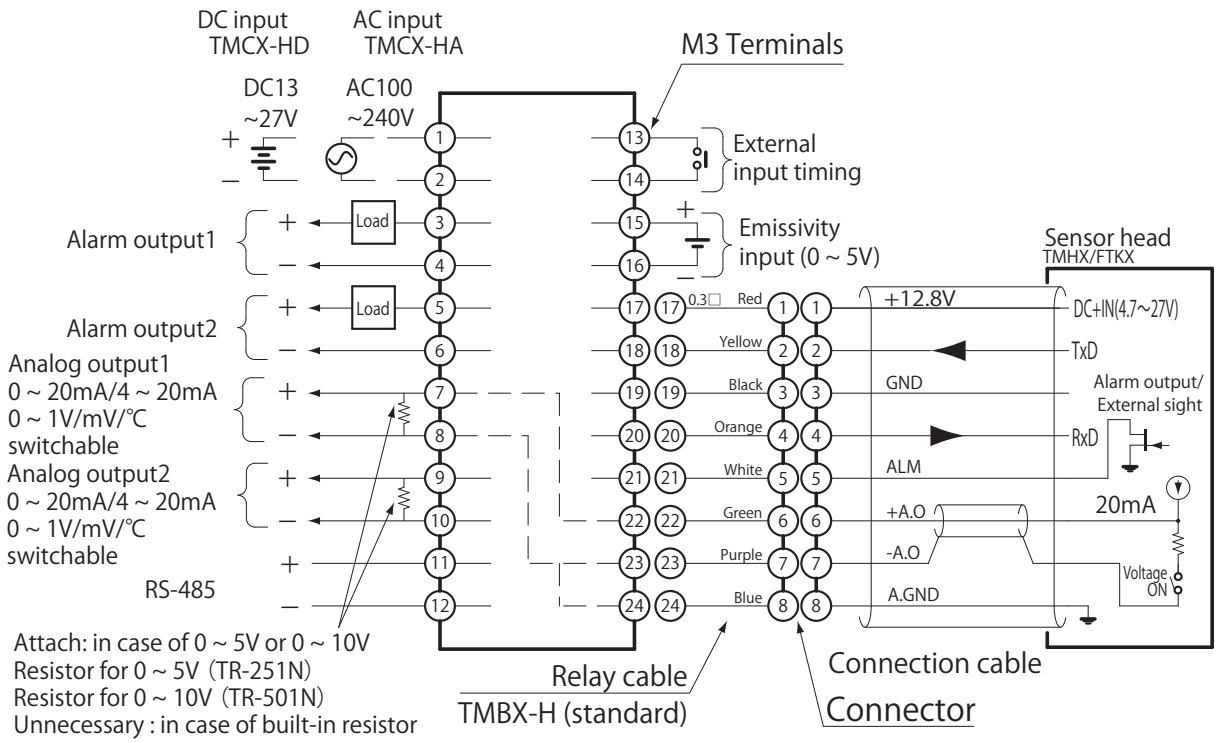


PWUX

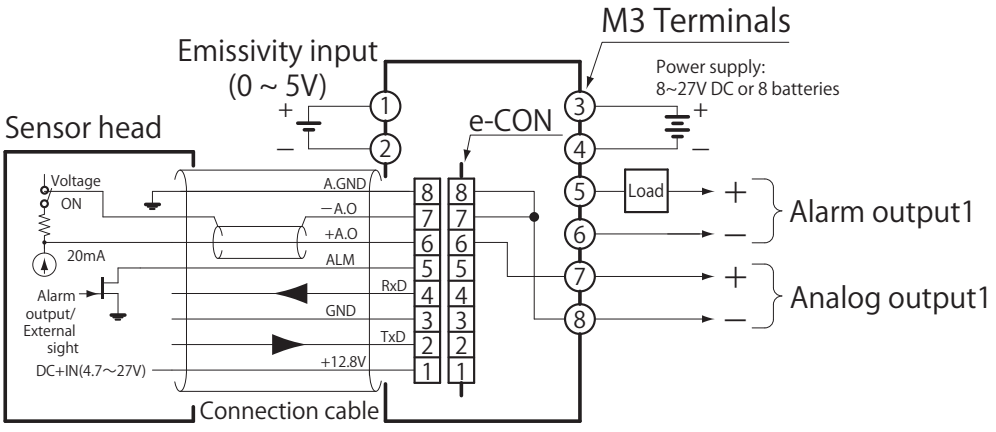


Wiring

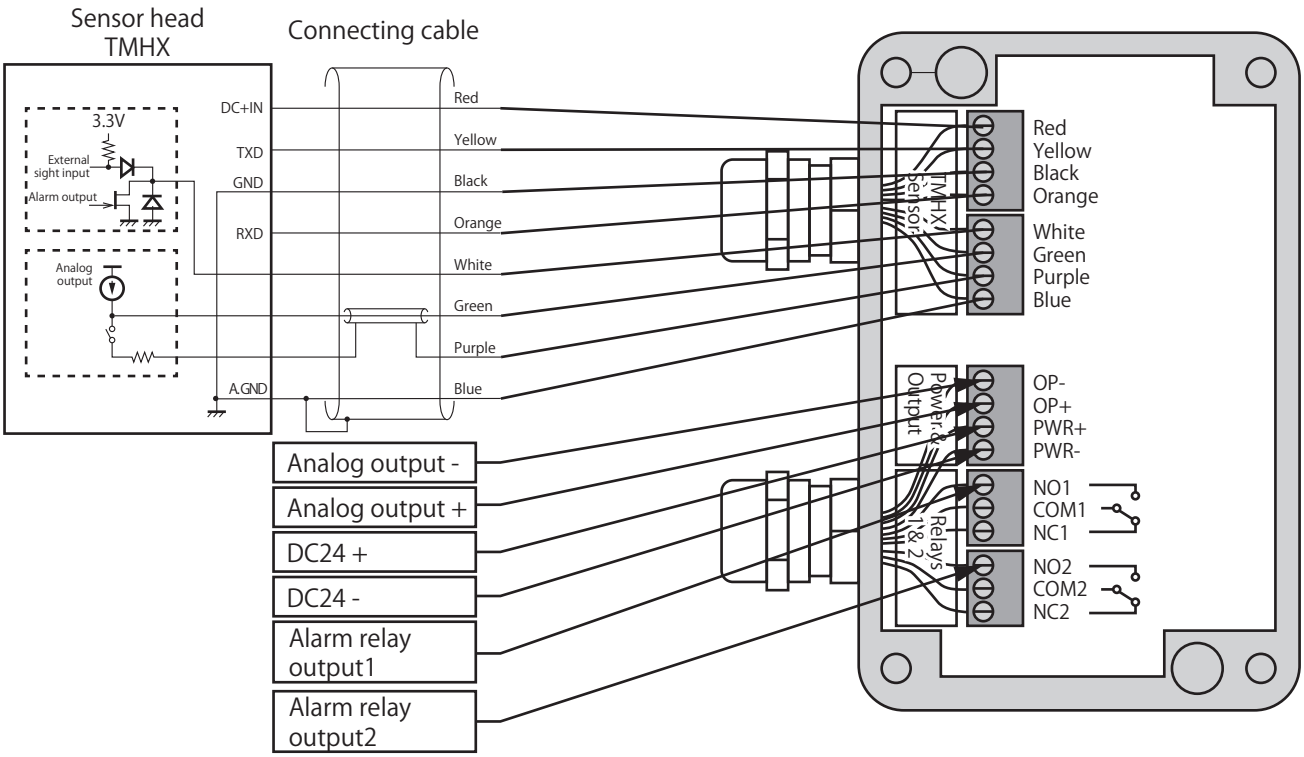
TMCX-H



TMCX-NDE



TMCX-TDE Wiring



The TMCX-TDE is supplied with an e-CON, 8 pin easily attachable connector, for connection with the TMHX series.
Please refer to the wiring above when you need to connect the lead cable of the TMHX directly.

Accessories

Terminal Cover	Branch cable	Resistor: 0 ~ 5V / 0 ~ 10V	Capacitor : noise suppressor for analog	Ferrite Core
				
TCX-H TCX-N	TMBX-B01	TR-251T TR-501T	TC-105T	FC-2032
For protection of terminal	For setting unit when thermometer is used alone. e-CON branch	Analog output TR-251N for 0 ~ 5V TR-501N for 0 ~ 10V Convert current 0 ~ 20mA to voltage	For Analog output noise Connect to Analog signal receiver	For Power Noise. Install to cables

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