

-50 to 400

-50.0 to 400.0

100 to 400

-100.0 to 400.0

-50 to 200

-50.0 to 200.0

0 to 1700

0 to 1700

ECC.L

dPE,H

d P E L

C U S.H

The above specifications are subject to change and some models may be discontinued without notice.
Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog).

C U S.L

528

F (CC)

R (PR)

S(PR)

Cu50Ω

RTD

homepage).

DPt 100Ω

-58 to 752

-58.0 to 752.0

148 to 752

-148.0 to 752.0

-58 to 392

-58.0 to 392.0

32 to 3092

32 to 3092



TX4S

D\//\/xH)

Relav

Current

SSR

100-240VAC~ 50/60Hz

250VAC~ 3A, 30VDC= 3A, 1a

Alarm output AL1, AL2: 250VAC 3A~, 30VDC 3A- 1a

0.1 to 999.9°C/°F

0 to 9999 sec

0.5 to 120.0 sec 0.0 to 100.0%

Mechanical OUT, AL1/2: min 5,000,000 operations

0 to 9999 se

50ms

Double inc

CE c 🕄 us 🖾

Approx. 146.1g (approx. 86.7g)

TX4M

 EV(W×H)
 7.2×14mm
 10.7×17.3mm
 7.2×15.8mm

 SV(W×H)
 3.9×7.6mm
 6.8×11mm
 6.2×13.7mm

Max. 12VDC--- ±2V 20mA Max. 13VDC--- ±3V 20mA

Com. output RS485 communication output (Modbus RTU method)

1 to 100°C/°F (0.1 to 50.0°C/°F) variable

mark: 🗖, diele

Approx. 233g (approx. 143g)

1. Measured value (PV) component:

ON/OFF control, P. Pl. PD, PID control

DC4-20mA or DC0-20mA (load resistance max, 500Ω

Trans. output DC4-20mA (load resistance max. 500Ω, output accuracy: ±0.3%F.S.)

DPt100 Ω , Cu50 Ω (permissible line resistance max. 5 Ω)

TX4H

11-segments (PV: white, SV: green), other display (yellow) with LCD method

•Out of room temperature: (PV ±0.5% or ±2°C, select the higher one) ±1-digit

3,000VAC 50/60Hz for 1 min (between primary circuit and secondary circuit)

 Interface
 OUT, AL 1/2: min 200,000 (250VAC 3A resistance load)

 resistance
 Min. 100MΩ (at 500VDC megger)

 istance
 Square shaped noise by noise simulator (pulse width 1µs) ±2kV R-phase, S-phase

0.75mm amplitude at frequency 5 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours

Approx. 214g (approx. 133g)

K (CA), J (IC), L (IC), T (CC), R (PR), S(PR) •At room temperature: (23°C±5°C): (PV ±0.3% or ±1°C, select the higher one) ±1-digit

TX4L

en primary circuit and secondary circuit: 3kV)

Approx. 290g (approx. 206g

16x26.8mm

10.7×17.8mm







rameter 1 group								
meter	Factory default							
AL I	1250							
RL 2	1630							
RĿ	oFF							
Р	10.0							
1	240							
Ь	49							
ESE	5 0.0							

RL - 2 RM2.R



Digital input	ut key(🛛	+ 🗟 3 sec)[di - K]								
Parameter		Operation								
OFF	oFF	-	It does not use digital input key function. Pauses control output. Auxiliary output (except loop break alarm, sensor break alarm)							
		Pauses control output except Control output					or 3 sec to restart.			
RUN/STOP	StoP	t,	t,	t		t	Digital input key (t: over 3 sec)			
	200						(1. 0761 0 360)			
		RUN STOP	F	RUN S	TOP	RUN				
Clear alarm	AL.RE	Clears alarm output b (only when alarm opti This function is applie	on is alar d when p	present value is out	t of ala	m operation				
		output is ON. Alarm o				-	paramotor 1			
Starts/Stops auto-tuning. This function is same as auto-tuning[PL] of paramet group. (You can start auto-tuning [PL] of parameter 1 group and stop it by dig										
Auto-tuning	RĿ	key.) ≫This parameter 8⊦	appears	only when control	method	l [[-m]] para	meter 2 group			
	* This parameter RE appears only when control method [[- Md] parameter 2 group is set as PI d. When control method [[- Md] parameter 2 group is set as oNoF, this									
		parameter is chang		F.						
Control output MV for input break[ER:#V] When input sensor is break, set control output MV.										
When control method[[-Md] of parameter 2 group is set as DNDF, set control output MV as DD (OFF)										
or /000 (ON).	When cor	ntrol method[[-Md] is s	et as Pl o	∃, setting range for	contro	l output MV is	s 0.0 to 100.0.			
	muni	cation Settir	าต							
		ng and monitoring via e		evices (PC, PLC, e	tc.).					
		with RS485 commun	nication	output through op	otion o	utput(TX4⊡-	B4⊡).			
Interface		ering Information'.								
Comm. proto		odbus RTU		Comm. speed			2200, 38400, 115200 bps			
Connection ty Application st		S485 IA RS485 Compliance v	with	Response waiting tir Start bit		(fixed)	t: 20ms)			
Max. connect Synchronous r		1 units (address: 01 to 12 synchronous	27)	Data bit Parity bit		t (fixed) e (default), O	dd Even			
Comm. metho		wo-wire half duplex		Stop bit		t, 2-bit (defaul				
Comm. effective										
Application of system organization RS232C/ S232C/ S232C/										
		USB/Wi-Fi RS485		Terminating resista (100 to 120Ω)	ince _	< Г				
			\nearrow				(-) RS485 DEVICE			
	\Leftrightarrow			$\forall \land \land \forall $	<i>چ</i> ر		(+) #31			
	5	Comm. converter	A (+)	B (-) A (+) B (-)		+) B (-)				
		B(-)	RS4 DEV	485 RS485	R	S485				
Comp	uter	ON SOFF	#			EVICE #30				
		A (+)								
%It is recomn	nended to	use Autonics commun	ication co	onverter; SCM-WF4	48 (Wi-	Fi to RS485·l	JSB wireless			
communica (RS232C to	tion conve	erter, sold separately), s converter, sold separate	SCM-US	48I (USB to RS485	conve	rter, sold sep	arately), SCM-38I			
Please use	twisted pa	air wire, which is suitab	le for RS	485 communication	n, for S	CM-WF48, S	CM-US48I and			
SCM-38I.										
Manu	al									
		on and instructions of co								
homepage).		munication, and be sure				crinical desci	iptions (catalog,			
Visit our home	epage (ww	vw.autonics.com) to dov	wnload m	ianuals.						
Error	•									
Display Des	cription					Troubleshoo	oting			
oPEN Flas	hes when	n input sensor is discon	nected or	sensor is not conr	nected.		sensor status.			
нннн Flas	hes when	measured value is hig	her than	input range.						
LLLL Flas	hes when	n measured value is low	/er than ir	nput range.		rated input range, this display disappears.				
Cauti	ions (during Use								
		'Cautions during Use'. the terminals before wi				ted accidents				
For RTD te	mperature	e sensor, wire it as 3-wi	re type, u	using cables in sam	ne thick					
		 T) temperature sensor, voltage lines or power 				wire for exter	nding wire.			
3. Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wine of instal line.										
wire at input signal line. Do not use near the equipment which generates strong magnetic force or high frequency noise.										
		ive power when connec n or circuit breaker in th								
power.	the unit fo	or other nurnose (e.a. v	oltmotor	ammeter) but tem	neratu	re controller	0			
 Do not use the unit for other purpose (e.g. voltmeter, ammeter), but temperature controller. When changing the input sensor, turn off the power first before changing. 										
After changing the input sensor, modify the value of the corresponding parameter. 8. Do not overlapping communication line and power line.										
Use twisted pair wire for communication line and connect ferrite bead at each end of line to reduce the effect of external noise.										
9. Make a req	uired space	ce around the unit for ra								
		ature measurement, wa er supply voltage reach								
		nals which are not used ed in the following envi		-						
 Indoors 	(in the en	vironment condition rat				ude max. 2,00				
③Pollution degree 2 ④Installation category II										
Majo	r Pro	ducts								
Photoelectric		Temperature Controller	rs							
 Fiber Optic Se Door Sensors 		 Temperature/Humidity SSR/Power Controllers 		rs						
Door Side Ser		Counters Timers								
Proximity Sen		Panel Meters	- \\ 4							
Pressure Sense Rotary Encode	ers	 Tachometer/Pulse(Rate Display Units 	e)ivieters			•				
Connector/So Switching Mod	ckets	Sensor Controllers				ics Corpo				
Control Switch	nes/Lamps/B	Buzzers			-	w.autonics.o	com			
Stepper Motor	s/Drivers/M			HEADQUARTER 18, Bansong-ro	513beor	-gil, Haeundae-g	gu, Busan,			
 Graphic/Logic Field Network 				South Korea, 48	002					

Load

OFF

9

Field Network Devices Laser Marking System(Fiber, Co₂, Nd:yag) Laser Welding/Cutting System

DRW170805AE

E-mail: sales@au