

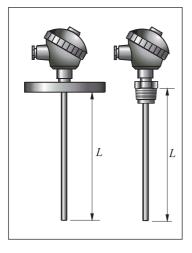




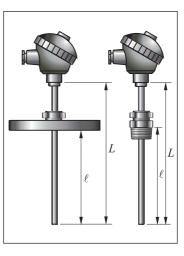
Thermocouple



THERMOCOUPLE / RESISTANCE BULB

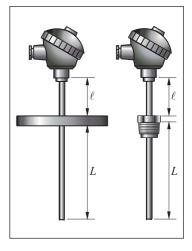


STANDARD TYPE



ADJUSTABLE TYPE

<

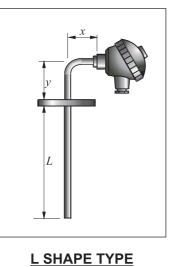


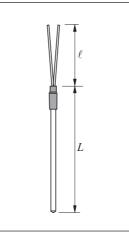
EXTENSION TYPE

<

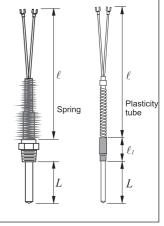
	<u> </u>					
Туре	GKEA	GPEA	GKEB/GKKB	GPEB/GPKB	GKEC/GKKC	GPEC/GPKC
Operating Temp.	0~1200°C	-50~500°C	0~1200°C	-50~500°C	0~1200°C	-50~500°C
Class Tolerance	JIS 0.75 grade ±0.0075 × t	IEC 751 CLASS B 0.3±0.005× t	JIS 0.75 grade ±0.0075 × t	IEC 751 CLASS B 0.3±0.005× t	JIS 0.75 grade ±0.0075 × t	IEC 751 CLASS B 0.3±0.005× t
Protective Grade	IP65	IP65	IP65/IP44	IP65/IP44	IP65/IP44	IP65/IP44
Connection	1", 1 1/2"×5kg/cm² 1/2"PT, 3/4"PT	1", 1 1/2" × 5kg/cm² 1/2"PT, 3/4"PT	1", 1 1/2" × 5kg/cm² 1/2"PT, 3/4"PT	1", 1 1/2" × 5kg/cm² 1/2"PT, 3/4"PT	1", 1 1/2" × 5kg/cm ² 1/2"PT, 3/4"PT	1", 1 1/2" × 5kg/cm ² 1/2"PT, 3/4"PT
Tube diameter	φ5, φ6 φ8, φ9.5	φ8, φ12.7 φ17.2	<i>φ</i> 5, <i>φ</i> 6 <i>φ</i> 8, <i>φ</i> 9.5	φ8, φ12.7 φ17.2	φ5, φ6 φ8, φ9.5	φ8, φ12.7 φ17.2
Material	SUS304/316 Titanium	SUS304/316 Titanium	SUS304/316 Titanium		SUS304/316 Titanium	SUS304/316 Titanium
Isolation resistance	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V
Wire	Nickel-Aluminum Nickel-Chromium	0 0 0	Nickel-Aluminum Nickel-Chromium		Nickel-Aluminum Nickel-Chromium	
	+ Special specifics	ation are accentable				

* Special specification are acceptable





ECONOMICAL TYPE

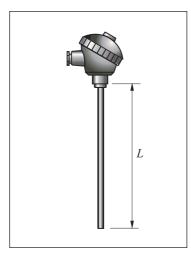


ECONOMICAL TYPE

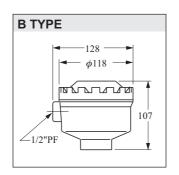
			<		A spring	+ Plastici tube
Туре	GKED/TKKD		GK-E	GP-E	GK-F	GP-G
Operating Temp.	0~1200°C	-50~500°C	0~480°C	-50~250°C	0 0~480°C	-50~250°C
Class Tolerance	JIS 0.75 grade ±0.0075 × t	IEC 751 CLASS B 0.3±0.005× t	JIS 0.75 grade ±0.0075 × t	CLASS B	JIS 0.75 grade ±0.0075 × t	IEC 751 CLASS B 0.3±0.005× t
Protective Grade	IP65/IP44	IP65/IP44	IP44		0 0 IP44	IP44
Connection	1", 1 1/2" × 5kg/cm²	0 1", 1 1/2" × 5kg/cm ²			0 0 1/4"PT	1/4"PT
Tube diameter	<i>φ</i> 5, <i>φ</i> 17.2	φ8, φ12.7 φ17.2	<i>φ</i> 6, <i>φ</i> 17.2	$\omega_{\rm D}$ $\omega_{\rm T/3}$	φ6, φ17.2	<i>φ</i> 6, <i>φ</i> 17.3
Material	SUS304/316 Titanium	SUS304/316 Titanium	SUS304/316 Titaniu, PTFE		SUS304/316 Titaniu, PTFE	SUS304/316 PP, PTFE
Isolation resistance	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V	>1000MΩ/500V
Wire	Nickel-Aluminum Nickel-Chromium	0 0 0	Nickel-Aluminum Nickel-Chromium		Nickel-AluminumNickel-Chromium	
Compensating Lead Wire	+ Special specifica		Isolated Cable PVC Cable	PTFE Copper Wire	Isolated Cable PVC Cable	PTFE Silver Wire PTFE Copper Wire PVC Cable

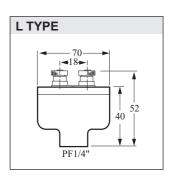
★ Special specification are acceptable

TERMINAL BOX



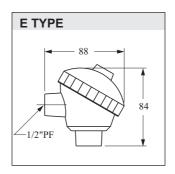
INTERCALARY TYPE

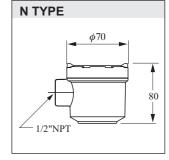


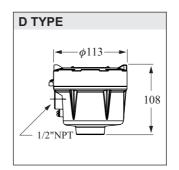


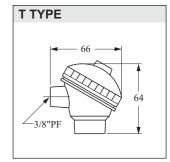
	<	
Туре	GKEH	GPEH
Operating Temp.	0~480°C	-50~250°C
Class Tolerance	JIS 0.75 grade ±0.0075 × ∣t∣	IEC 751 CLASS B 0.3±0.005× t
Protective Grade	IP65	IP65
Connection		
Tube diameter	<i>ф</i> 6, <i>ф</i> 17.2	φ6, φ17.3
Material	SUS304/316 Titanium, PTFE	SUS304/316 Titanium
Isolation resistance	>1000MΩ/500V	>1000MΩ/500V
Wire	Nickel-Aluminum Nickel-Chromium	

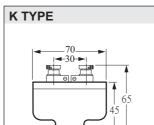
* Special specification are acceptable



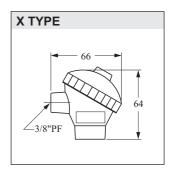




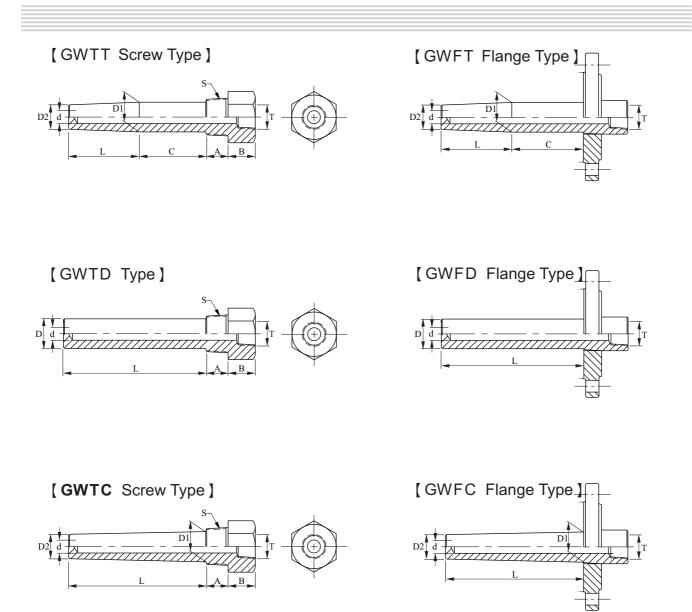




PF1/2



METAL PROTECTION TUBE



※Please specify the size and material of each part when ordering.

MODEL NUMBER / ORDER CODE COMPARISON TABLE

Model Number	Order Code
GKEA	GKX10000-00E
GPEA	GPX10000-00E
GKEB	GKX10000-A2E
GKKB	GKX10000-A2T
GPEB	GPX10000-A2E
GPKB	GPX10000-A2T
GKEC	GKX10000-A1E
GKKC	GKX10000-A1T
GPEC	GPX10000-A1E
GPKC	GPX10000-A1T
GKED	GKX10000-A3E
GKKD	GKX10000-A3T
GPED	GPX10000-A3E
GPKD	GPX10000-A3T
GK-E	GKX10100-A50
GP-E	GPX10100-A50
GK-F	GKX10100-A60
GP-G	GPX10100-A60
GKEH	GKX10000-A4E
GPEH	GPX10000-A4E

ORDER INFORMATION

	02 05 06	09 10 11 12 13 14 (5 (6 (7) (8 (9) 20 21 22 23 24 25 26 27
	$\mathbf{G} \square \mathbf{X} 1 \square \square$	0 0 -	
Input signal ——			
K:Thermocouple K ty	/pe		
J: Thermocouple J ty			
S: Thermocouple S ty			
P: Resistance PT100			
65 66 Model —			
00: Standard			
01: Economy (Witho	ut terminal box)		
			(Next page)
10 Type — — — — — — — — — — — — — — — — — — —			
00: Standard			
A1: Extension type			
A2: Adjustable type			
A3: L shape type			
A4: Intercalary type			
A5: Economical type			
A6: Economical type A7: Economical type			
	With tube		
Terminal box —			
-			
0: None	. 、		
E: Terminal head (Al			
T: T type Terminal(B	sig size)		
⁽¹⁾ Output signal —			
A: DC4~20mA			
B: 2-wire output			
C: 3-wire output			
Connection ——			
(13)(14)	(15)(16)	(17) (18)	
00: None	00: None	00: None	
Flange	A1: 1/8"	01: PT male	
AK: JIS-FF	A2: 1/4"	03: PF male	
AN: ANSI-RF	A4: 3/8"	07: NPT male	
AS: DIN-FF	A5: 1/2"	40: 5 kg/cm ²	
Throad	A7: 3/4"	42: 10 kg/cm ²	
Thread AC: ANSI	A8: 1"	48: 150 Lbs	
AC: ANSI AA: JIS	A9: 1-/4" B1: 1-1/2"	49: 300 Lbs	
	B1: 1-1/2 B2: 2"		
	=		

	G 🛄 X 1	05 06 0 0	09 10 11 12 -		
(9) @ Probe diamete	r				
1A: <i>φ</i> 4.0mm					
1B: <i>φ</i> 5.0mm					
1D: <i>φ</i> 6.0mm					
1F: φ8.0mm					
1G: φ9.5mm					
2A: φ12.7mm					
2D: <i>φ</i> 17.2mm					
1) 12 Probe material					
MA: SUS 304					
MB: SUS 316					
MC: SUS 316L					
3242520 Length				 	
_	Length				
0001~9999 0001~	9999mm				

Sersor amount-

A: 1

B: 2

C: 3

TR210 / 220 SPECIFICATION

ТҮРЕ	TR210 Series	TR220 Series
	Non-Isolation	Isolation
Input : RTD 、TC 、Rohm	RTD \rightarrow TC A \rightarrow B \rightarrow B \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow	RTD \rightarrow TC $\stackrel{A}{\rightarrow}$ \rightarrow + $\stackrel{B}{\rightarrow}$ $\stackrel{B}{\rightarrow}$ $\stackrel{A}{\rightarrow}$ $\stackrel{A}{$
Function summary		
Features:		
Power supply(Vdc)	12~36 Vdc (Loop Power)	24 VDC ± 20%
Ambient temp. range(°C)	-40~85	-40~85
Isolation	N/A	1500Vac
Channels	1	1
CJC Accuracy(°C)	±1	±1
Input:		
PT100 Span /min. span(°C)	-200~850 / 10	-200~850 / 10
PT1000 Span /min. Span(°C)	-200~850 / 10	-200~850 / 10
Rohm Span /min. Span(Ω)	0~400 or 0~4000 /10	0~400 or 0~4000 /10
TC types	B, E, J, K, N, R, S, T	B, E, J, K, N, R, S, T
Output:		
Loop power 2-wire output	4~20mA or 20~4mA	4~20mA or 20~4mA
Technical summary		
	Basic Accuracy	Temperature Coefficient
PT100-2Wiers/PT1000-2Wiers	±1°C	±0.005% / °C
PT100-3Wiers/PT1000-3Wiers	$\pm 0.5^{\circ}C$	±0.005% / °C
PT100-4Wiers/PT1000-4Wiers	$\pm 0.5^{\circ}C$	±0.005% / °C
TC type: E, J, K, N, R, S	± 1.5°C	±0.01% / °C
TC type: B	±2°C	±0.04% / °C
TC type: T	±1°C	±0.01% / °C
Rohm	$\pm 0.1 \Omega$	±0.005% / °C

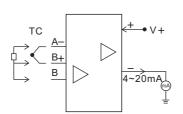


TR160 Series

Economical type

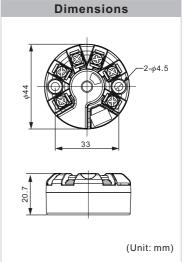
TYPE

Input : RTD, TC, Rohm, mV, Linear Current, Linear Voltage



Function summary

Features:	
Power supply(Vdc)	18~36V
Ambient temp. range(°C)	-40~85
Isolation	None
Channels	1
CJC accuracy(°C)	≦±1
Input:	
PT100 Span /min. span(°C)	-200~850 / 10
Rohm Span /min. Span(Ω)	0~400 / 5
TC types	B, E, J, K, N, R, S, T
Linear Current, signal range	0~20mA, 4~20mA
Linear Voltage, signal range	0~0.5V,0~1V, 0~5V, 0~10V, 0~20V
Output:	
Loop Power 2-wire output	4~20mA/20~4mA



Loop Power 2-wire output 4 Technical summary

	Basic Accuracy	Temperature Coefficient
PT100	≦±0.5°C	≦±0.005°C
Rohm	$\leq \pm 0.4\Omega$	≦±0.005°C
TC type: E, J, K, N, T	≦±4°C	≦±0.04°C
TC type: B	≦±3°C	≦±0.01°C
TC type: R, S	≦±3°C	≦±0.04°C
TC type: T	≦±2°C	≦±0.01°C
Voltage	≤±0.1mV	$\leq \pm 0.005^{\circ}C$

TR160 SPECIFICATION / ORDER INFORMATION

Model Number	Order Code
TR210	TRX30100-A
TR220	TRX30100-В
TR160	TRX20100-A

 Ø Version 2: Second 3: Third 		TRX 🗍 0 1 0 0	
Isolation type — A: None Isolation B: Isolation			
(1) (1) Input range — V1: 0~0.5V V2: 0~1V V3: 0~5V V4: 0~10V V5: 0~20V I1: 4~20mA I2: 0~20mA	T1: ALL T2: K Type -200°C~1370°C TK: K Type -90°C~320°C T3: J Type -210°C~1200°C TJ: J Type -90°C~320°C T4: T Type -200°C~400°C T5: E Type -200°C~1000°C	T6: R Type -50°C~1760°C T7: S Type -50°C~1760°C T8: B Type -250°C~1820°C T9: N Type -200°C~1800°C TA: PT 100 -200°C~850°C R1: 0~400 Ω	
 (2) Analong output 1: 4~20mA 2: 20~4mA 	t ———		
⑬ Display unit ── A: °C B: °F			



845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 102070

845/3-4 Thepaharak RD., T. Thepharak, A. Muang, Samutprakan 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : pneumatic@flutech.co.th, www.flutech.co.th