Low Cost, Compact, Local Indicating Temperature Transmitter



2-wire Loop-powered Model : KT-11,12

RTD Input Front attached display Cost effective LED 3-digits local display High accurate, durable & reliable Wide measuring ranges Excellent accuracy & long term stability All stainless steel construction

The transmitter converts RTD & T/C inputs to an analog signal for direct interface with indicators, recorders, controllers, PLC & DCS systems can be used for a wide range of applications in process control, automatic machinery and hydraulic or pneumatic system design.

GENERAL DESCRIPTION

KP-11 series Compact & low cost digital temperature transmitters have been designed an advanced device for measuring temperature and used on Resistance temperature detector or Thermocouple assembly to provide a 4~20mA transmission output signal. A compact design and 3 digit LED local display make it easy to control and monitoring process.

It is a cost effective solution for all temperature measurement. Numerous configurations for measurement in many different mediums are offered. Generally the transmitter produces a linear 4~20mA output carried on a 2-wire system and optional voltage output can also be available.

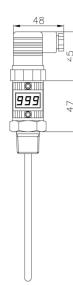
TECHINCAL DATA

Input							
Element Type	RTD Pt 100 ohm						
Out-diameter	3.2, 4.8, 6.4, 8, 10mm						
Output							
Output Signal	4~20mA DC, 2-wire						
	1~5V, 0~10V DC, 3-wire(Optional)						
Local Display	3 Digits, 7-segment digital LED						
Electrical Specification							
Electrical Connection	KT-11 : 4-pin L-plug, DIN 43 650, IP65						
	KT-12 : Flying lead with PG 9 connector						
Excitation Voltage	10~36V DC						
Load Resistance max.@24V	750 ohm at 24V						
Influence Of Excitation	0.01% FSO/V						
Reverse Polarity	Protected						
Response Time	≤2 miliseconds						
Adjustment	Within 10% of full scale						
Performance Specification							
Accuracy	±0.2% FSO						
Non-linearity	±0.10% FSO typical						
Repeatability	±0.05% FSO typical						
Hysteresis	±0.05% FSO typical						
Long-term Stability	±0.3% FSO over 6 months						
Ambient Temperature Limit	-20~80 °C						
Ambient Humidity Limit	5~100% R.H						
Physical Specification							
Process Connection	Thread Type : PT, NPT, PF						
	Thread Size : 1/4", 3/8", 1/2"						
	Other connections available such as JIS, ANSI, DIN Flange						
Process Media	Gases & liquids compatible with Stainless steel 316						
Materials	Case : Stainless steel 316						
	Wetted parts : Stainless steel 316						
	Probe : Stainless steel 316						
	Display cover : Polycarbonite						
Enclosure Rate	IP65						

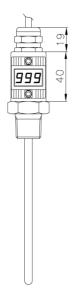
Note) More information for process connection & mounting types, please refer to the table.

DIMENSION





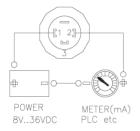
KT-12



Elecrical Connection(wiring)

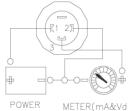
2-wire system

4-pin L-plug, DIN 43 650

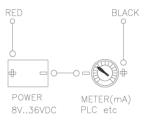


3-wire system

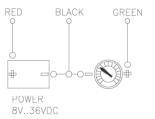
4-pin L-plug, DIN 43 650



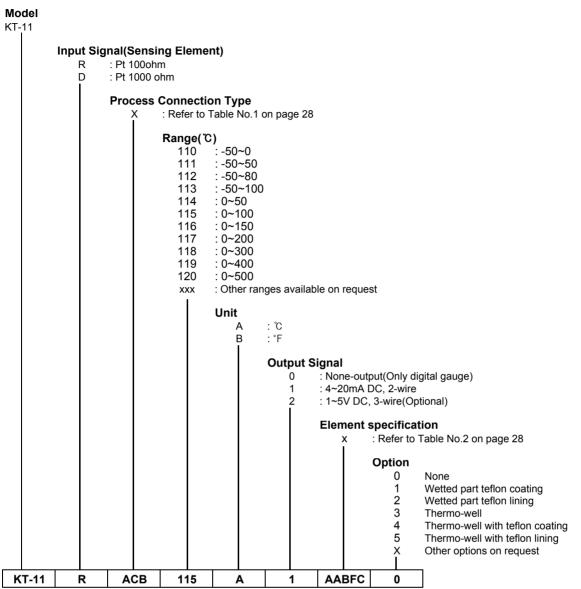
POWER METER(mA&Vdc) 8V..36VDC PLC etc Flying lead



Flying lead



ORDERING INFORMATION



Note 1) Other ranges are available on request.

Note 2) Please make details, if you need Thermo-well assembly according to Table No.3 on page 29

Table No.1 For Process Connection

1	l'st character	2'nd character			3'rd character					
Ν	Mounting type		Connection size				Connectio	on type		
Code	Туре	Code	Size		Code	Туре	Code	Туре		
А	Fixed thread	А	1/4"	8A	Α	PF	F	JIS10K RF		
В	Nipple	В	3/8"	10A	В	PT	G	JIS10K FF		
С	Union & nipple	С	1/2"	15A	С	NPT	н	JIS20K RF		
D	Comp.fitting	D	3/4"	20A	D	UNF	I	JIS20K FF		
Е	Flange	E	1"	25A	E*	C.F	J	JIS30K RF		
F	None	F	11/4"	32A			К	JIS30K FF		
		G	11/2"	40A			L	ANSI 150# RF		
		Н	2"	50A			М	ANSI 150# FF		
		I	21/2"	65A			N	ANSI 300# RF		
		J	3"	80A	1		0	ANSI 300# FF		
		K	4"	100A			Р	ANSI 600# RF		
					-		Q	ANSI 600# FF		

Note E* : Compression fitting

Other process connection available on request

Table No.2 For Element specification

1'st character 2'nd ch		aracter	3'rd character		4'th character		5'th character		
Element		Material		Grade		Out-diameter(mm)		Probe length(mm)	
Code	Element	Code	Material	Code	Class	Code	Diameter	Code	Length
А	Single	А	316 SS	А	0.4 / A	А	1.0	А	50
В	Double	В	Inconel	В	0.75 / B	В	1.6	В	75
						С	2.3	С	100
						D	3.2	D	150
						Е	4.8	Е	200
						F	6.4	F	250
						G	8.0	G	300
						Н	10.0	Н	500
						Ι	12.0	I	750
						J	14.0	J	1000
						К	15.0	K	1500
						L	17.3	L	2000
						М	21.7	М	2500
Note : Special length available on request								Ν	3000
								0	3500
								Р	4000



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