

Temperature Sensor

MODEL	DESCRIPTION	센서타입 sensor type	측정범위 operating range	적용모델 applicable model
FS-100D	7.8(∅)×35(L) 	DIODE	-40 ~ 90℃	FOX-1004 FOX-E1004 FOX-S1004 FOX-D1004 FOX-T1004
FS-200N	5(∅)×46(L) 	NTC	-50 ~ 100℃	FOX-2001 FOX-2001D FOX-2002 FOX-2001T FOX-2003 FOX-2001F FOX-2004 FOX-2000TT FOX-2005 FOX-C1 FOX-2006
FS-300I	6(∅)×60(L) 	IC(LM35)	-50 ~ 100℃	FOX-11C FOX-21C
FS-400P	6(∅)×130(L) 	PT100Ω	-100 ~ 200℃	
FS-401P	6.4(∅)×63(L)×1/8PT 	PT100Ω	-100 ~ 200℃	FOX-1PH FOX-2P1 FOX-2P2 FOX-7P9R FOX-9P6R-24H
FS-402P	6.4(∅)×63(L)×1/8PT 	PT100Ω	-100 ~ 200℃	
FS-501C	6.4(∅)×130(L)×1/8PT 	CA(K)	-50 ~ 200℃	FOX-1CH FOX-2C1 FOX-2C2 FOX-7C6R FOX-9C6R

Technical data(Pt100Ω) for FS-400P

RESISTANCE VS TEMPERATURE RELATIONSHIP OVER THE RANGE -200 TO + 600
FOR PLATINUM RESISTANCE TEMPERATURE DETECTOR ELEMENTS

		emf/μV									M : DIN	
(t90)	0	1	2	3	4	5	6	7	8	9	(t90)	
	18.52											
-200											-200	
-180	27.10	26.67	26.24	25.82	25.39	24.97	24.54	24.11	23.68	23.25	-180	
-160	35.54	35.12	34.70	34.28	33.86	33.44	33.02	32.60	32.18	31.76	-160	
-140	44.38	43.36	43.05	42.63	42.22	41.80	41.39	40.97	40.56	40.14	-140	
-120	52.11	51.70	51.29	50.88	50.47	50.06	49.65	49.24	48.83	48.42	-120	
-110	56.19	55.79	55.38	54.97	54.56	54.15	53.75	53.34	52.93	52.52	-110	
-100	60.26	59.85	59.44	59.04	58.63	58.23	57.82	57.41	57.01	56.60	-100	
-90	64.30	63.90	63.49	63.09	62.68	62.28	61.88	61.47	61.07	60.66	-90	
-80	68.33	67.92	67.52	67.12	66.72	66.31	65.91	65.51	65.11	64.70	-80	
-70	72.33	71.93	71.53	71.13	70.73	70.33	69.93	69.53	69.13	68.73	-70	
-60	76.33	75.93	75.53	75.13	74.73	74.33	73.93	73.53	73.13	72.73	-60	
-50	80.31	79.91	79.51	79.11	78.72	78.32	77.92	77.52	77.12	76.73	-50	
-40	84.27	83.87	83.48	83.08	82.69	82.29	81.89	81.50	81.10	80.70	-40	
-30	88.22	87.83	87.43	87.04	86.64	86.25	85.85	85.46	85.06	84.66	-30	
-20	92.16	91.77	91.37	90.88	90.59	90.19	89.80	89.40	89.01	88.62	-20	
-10	96.09	95.69	95.30	94.91	94.52	94.12	93.73	93.34	92.95	92.55	-10	
0	100.00	99.61	99.22	98.83	98.44	98.04	97.65	97.26	96.87	96.48	0	
0	100.00	100.39	100.78	101.17	101.56	101.95	102.34	102.73	103.12	103.51	0	
10	103.90	104.29	104.68	105.07	105.46	105.85	106.24	106.63	107.02	107.40	10	
20	107.79	108.18	108.57	108.96	109.35	109.73	110.12	110.51	110.90	111.29	20	
30	111.67	112.06	112.45	112.83	113.22	113.61	114.00	114.38	114.77	115.15	30	
40	115.54	115.93	116.31	116.70	117.08	117.47	117.86	118.24	118.63	119.01	40	
50	119.40	119.78	120.17	120.55	120.94	121.32	121.71	122.09	122.47	122.86	50	
60	123.24	123.63	124.01	124.39	124.78	125.16	125.54	125.93	126.31	126.69	60	
70	127.08	127.63	127.84	128.22	128.61	128.99	129.37	129.75	130.13	130.52	70	
80	130.90	131.28	131.66	132.04	132.42	132.80	133.18	133.57	133.95	134.33	80	
90	134.71	135.09	135.47	135.85	136.23	136.61	136.99	137.37	137.75	138.13	90	
100	138.51	138.88	139.26	139.64	140.02	140.40	140.78	141.16	141.54	141.91	100	
110	142.29	142.67	143.05	143.43	143.80	144.18	144.56	144.94	145.31	145.69	110	
120	146.07	146.44	146.82	147.20	147.57	147.95	148.33	148.70	149.08	149.46	120	
130	149.83	150.21	150.58	150.96	151.33	151.71	152.08	152.46	152.83	153.21	130	
150	157.33	157.70	158.07	158.45	158.82	159.19	159.56	159.94	160.31	160.68	150	
180	168.48	168.85	169.22	169.59	169.96	170.33	170.70	171.07	171.43	171.80	180	
200	175.86	176.22	176.59	176.96	177.33	177.69	178.06	178.43	178.79	179.16	200	
300	212.05	212.41	212.76	213.12	213.48	213.83	214.19	214.54	214.90	215.25	300	
400	247.09	247.44	247.78	248.13	248.47	248.81	249.16	249.50	249.85	250.19	400	
600	313.71	314.03	314.35	314.67	314.99	315.31	315.64	315.96	316.28	316.60	600	

* Applicable FOX- Model Name : FS-400P / FS-401P / FS-402P

Originally its element can measures from -200°C to more than 600°C, but we would like to recommend the operating range with stability as follows ;

* recommendable operating range : -200 ~ + 200°C

* Therefore our 3 models can measures above operating range with stability.

However, please use these models proper method without any damage or injury of its tube, & wire when it is used at high temperature.

And with regard to theirs size and shape, please refer to our products catalogue.