



PRODUCT CATEGORY/ SUPPLIER CROSS REFERENCE

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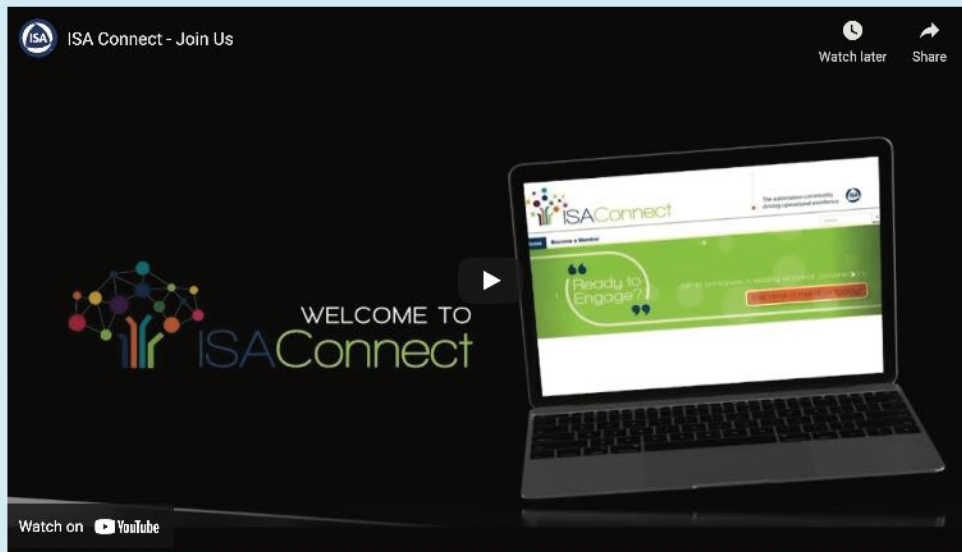
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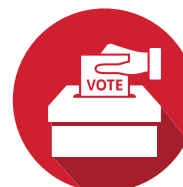
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TECHNICAL SECTION



This technical section has been prepared by the
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Temperature Sensor Comparisons

Thermocouples - Pros & Cons

Advantages

- Inexpensive
- Fast responding
- Rugged
- Tip sensitive
- Self-powered
- Range of -200 to 2300 °C
- Small diameters 0.010”(0.25 mm)
- Multi-point sensing

Disadvantages

- Non-linear
- Least stable
- Sensitivity is low
- Low voltage output
- Requires special extension wire
- Reference required
- Accuracy degrades over time

RTD - Pros & Cons

Advantages

- Linear output
- Long term stability
- Long term stability
- Special extension wire not required
- More accurate than a thermocouple
- Repeatable

Disadvantages

- Limited range of -200 to 850 °C
- Slow response
- Current source required
- Self-heating error
- More expensive than a thermocouple
- Less rugged than a thermocouple

RTD vs. Thermocouple

RTD Advantages

- Higher Accuracy
- Higher Stability
- Does not Require Cold Junction Compensation
- Better Linearity

T/C Advantages

- Rugged
- Small Size
- Fast Response
- Wide Range
- Self powered

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Sarnia Information

Latitude	Approximately 43.00 N
Longitude	Approximately 82.30 W
Elevation	Approximately 181m
Minimum Recorded Temperature	-28.7 C
Maximum Recorded Temperature	40 C
Jan 2.5% Design Temperature	-16.0 C
Jan 1% Design Temperature	-18.0 C
July 2.5% Design Dry Bulb Temperature	32.2 C
July 2.5% Design Wet Bulb Temperature	23.0 C
Annual Average Temperature	8.2 C
Annual Total Degree Days Below 18 C	3800
Atmospheric Pressure Average	99.44 Pa
Maximum 24 Hour Rainfall	98.0 mm
Annual Total Precipitation	890.0 mm
10 Year Storm 15 min	23.0 mm
10 Year Storm 1 hour	36.9 mm
100 Year Storm 15 min	41.8 mm
100 Year Storm 1 hour	52.3 mm
Ground Snow Load	1.0 Kpa
Hourly Wind Pressure - 1/10	0.35 Kpa
Hourly Wind Pressure - 1/30	0.43 Kpa
Hourly Wind Pressure - 1/100	0.52 Kpa
Prevailing Wind Direction	SW
Frost Penetration	1.2 m
Seismic Design Parameter Za	0
Seismic Design Parameter Zv	0
Seismic Design Parameter V	0

Properties of Selected Gases

Gas	Chemical Formula	Molecular Weight	Density ① lb/ft³	Specific Gravity ②	Individual Gas Constant R	Ratio of Specific Heat $K = C_p/C_v$
Acetylene	C ₂ H ₂	26.0382	.06858	0.897	59.348	1.28
Air	—	28.9644	.07649	1.000	53.352	1.40
Ammonia	NH ₃	17.0306	.04488	0.587	90.738	1.29
Argon	A	39.9480	.10553	1.379	38.683	1.67
Butane-N	C ₄ H ₁₀	58.1243	.15873	2.075	26.586	1.09
Butane-ISO	C ₄ H ₁₀	58.1243	.15814	2.067	26.586	1.10
Carbon Dioxide	CO ₂	44.0100	.11684	1.528	35.113	1.28
Carbon Monoxide	CO	28.0106	.07397	0.967	55.169	1.41
Chlorine	CL ₂	70.9060	.19046 0°C	2.490 0°C	21.794	1.36
Ethane	C ₂ H ₆	30.0701	.08005	1.047	51.391	1.19
Ethylene	C ₂ H ₄	28.0542	.07392	0.967	55.083	1.22
Helium	He	4.00260	.01056	0.138	386.07	1.66
Heptane, Average	C ₇ H ₁₆	100.2060	.26451	3.458	15.421	—
Hextane, Average	C ₆ H ₁₄	86.1785	.22748	2.974	17.932	1.08
Hydrochloric Acid	HCL	36.4610	.09606	1.256	42.383	1.40
Hydrogen	H ₂	2.01594	.00532	0.070	766.55	1.40
Hydrogen Sulfide	H ₂ S	34.0799	.09024	1.177	45.344	1.32
Methane	CH ₄	16.0430	.04243	0.555	96.324	1.31
Methyl Chloride	CH ₃ CL	50.4881	.13292	1.738	30.606	1.20
Neon	Ne	20.1830	.05155	0.674	76.565	1.64
Nitric Oxide	NO	30.0061	.07908	1.034	51.500	1.40
Nitrogen	N ₂	28.0130	.07397	0.967	55.164	1.40
Nitrous Oxide	N ₂ O	44.0128	.11606	1.518	35.111	1.26
Octane, Average	C ₈ H ₁₈	114.2330	.30153	3.942	13.528	—
Oxygen	O ₂	31.9988	.08453	1.105	48.293	1.40
Pentane, ISO	C ₅ H ₁₂	72.1514	.19045	2.490	21.418	1.06
Propane	C ₃ H ₈	44.0972	.11854	1.550	35.044	1.33
Propylene	C ₃ H ₆	42.081	.04842 - 47°C	0.634 - 47°C	36.722	1.14
Sulphur Dioxide	SO ₂	64.0630	.16886	2.208	24.122	1.25

① Density is given for gas at 14.73 psia and 60°F unless noted.

② Specific gravity used air at 14.73 and 60°F as base conditions.

Air Density

Temperature		Air Density 1bm/FT³											
°F	°C	14.73 PSIA	100 PSIA	200 PSIA	300 PSIA	400 PSIA	500 PSIA	600 PSIA	700 PSIA	800 PSIA	900 PSIA	1000 PSIA	1100 PSIA
-40	-40	0.0949	0.6488	1.3087	1.9796	2.661	3.3525	4.0533	4.7628	5.4768	6.2031	6.9315	7.6632
-20	-29	0.0905	0.6182	1.245	1.8799	2.5227	3.1728	3.8295	4.492	5.1594	5.8308	6.5051	7.1811
0	-17.8	0.0866	0.5905	1.1875	1.7906	2.3995	3.0135	3.6321	4.2547	4.8805	5.5086	6.1382	6.7684
20	-6.7	0.0830	0.5652	1.1353	1.71	2.2887	2.8711	3.4567	4.0447	4.6347	5.2258	5.8175	6.409
40	4.4	0.0797	0.5421	1.0878	1.6368	2.1886	2.7429	3.2992	3.857	4.4157	4.9748	5.5338	6.092
60	15.6	0.0765	0.5208	1.0442	1.5699	2.0974	2.6266	3.1569	3.6879	4.2191	4.7502	5.2805	5.8098
80	26.7	0.0737	0.5012	1.0041	1.5085	2.0141	2.5205	3.0275	3.5347	4.0416	4.5478	5.0529	5.5567
100	37.8	0.0711	0.4829	0.9670	1.4519	1.9375	2.4234	2.9093	3.3949	3.8798	4.3637	4.8464	5.3274
120	49	0.0687	0.4660	0.9327	1.3997	1.8668	2.3339	2.8006	3.2666	3.7316	4.1954	4.6577	5.1184
140	60	0.0664	0.4503	0.9007	1.3511	1.8013	2.2511	2.7001	3.1482	3.5951	4.0406	4.4845	4.9265
160	71	0.0641	0.4356	0.871	1.3061	1.7406	2.1744	2.6073	3.0391	3.4695	3.8985	4.3257	4.7509
180	82	0.0621	0.4218	0.8432	1.264	1.684	2.103	2.521	2.938	3.3529	3.7665	4.1783	4.5882
200	93	0.0602	0.4089	0.8171	1.2246	1.6311	2.0364	2.4405	2.8432	3.2444	3.6439	4.0417	4.4375
220	104	0.0585	0.3967	0.7927	1.1877	1.5815	1.9741	2.3654	2.7551	3.1432	3.5296	3.9144	4.2972
240	116	0.0568	0.3853	0.7697	1.1529	1.5349	1.9156	2.2948	2.6725	3.0485	3.4228	3.7953	4.1658
260	127	0.0552	0.3745	0.7480	1.1202	1.4911	1.8606	2.2288	2.5956	2.9608	3.3239	3.6846	4.0424
280	138	0.0537	0.3644	0.7275	1.0893	1.4497	1.8088	2.1666	2.5231	2.8779	3.2306	3.5803	3.9264
300	149	0.0523	0.3547	0.7081	1.0601	1.4107	1.7599	2.1078	2.4546	2.7997	3.1424	3.4819	3.8174
320	160	0.0510	0.3456	0.6898	1.0325	1.3737	1.7136	2.0523	2.3897	2.7256	3.059	3.389	3.7147
340	171	0.0497	0.3369	0.6724	1.0063	1.3388	1.6698	1.9997	2.3283	2.6553	2.98	3.3013	3.6184

Vapor Pressure of Water

VAPOR PRESSURE OF WATER (psia)					
°F	psia	°F	psia	°F	psia
32	.088	100	.950	160	4.741
40	.122	105	1.102	165	5.335
45	.148	110	1.275	170	5.992
50	.178	115	1.470	175	6.715
55	.214	120	1.693	180	7.510
60	.256	125	1.942	185	8.383
65	.306	130	2.223	190	9.339
70	.363	135	2.537	195	10.385
75	.430	140	2.889	200	11.526
80	.507	145	3.281	205	12.769
85	.596	150	3.718	210	14.123
90	.698	155	4.203	212	14.696
95	.815				

Critical Pressures of Some Common Liquids

Liquid	psia	Bar Absolute	Liquid	psia	Bar Absolute
Acetic Acid	840	58.0	Hexane	433	29.9
Acetic Anhydride	676	46.6	Hydrogen	188	13.0
Acetone	691	47.6	Hydrogen Sulphide	1308	90.1
Acetylene	911	62.9	Isopropyl Alcohol	779	53.8
Air	547	37.7	Methane	673	46.4
Ammonia	1638	113.0	Methyl Alcohol	1156	79.8
Benzene	701	48.3	Methyl Chloride	967	66.7
Bromine	1485	102.3	Nitrogen	492	33.9
Butadiene	627	43.3	Octane	362	25.0
Butane	529	36.5	Oxygen	730	50.4
Butyl Alcohol	711	49.0	Pentane	485	33.5
Carbon Dioxide	1072	74.0	Phenol	889	61.3
Carbon Tetrachloride	661	45.6	Propane	617	42.6
Dowtherm A	465	32.1	Propylene	661	45.6
Dowtherm E	465	32.1	Propyl Alcohol	735	50.7
Ethane	717	49.5	Propyl Chloride	664	45.8
Ethyl Alcohol	927	64.0	Pyridine	882	60.8
Ethyl Chloride	2750	190.0	Pyridine Pure	882	60.8
Ethylene	742	51.2	Toluene	611	42.1
Heptane	394	27.2	Water	3206	221.0

Physical Constants of Various Fluids

Fluid	Formula	Molecular Weight	Boiling Point at 14.696 psia °F	Specific Gravity	
				Liquid (Water=1.00)	Gas (Air=1.00)
Acetic Acid	HC ₂ H ₃ O ₂	60.05	245	1.05	
Acetone	C ₃ H ₆ O	58.08	133	0.79	2.01
Acetylene	C ₂ H ₂	26.03	-119	0.62	0.90
Air	N ₂ O ₂	28.97	-317	0.86	1.00
Alcohol, Ethyl	C ₂ H ₆ O	46.07	173	0.789	1.59
Alcohol, Methyl	CH ₄ O	32.04	148	0.791	1.11
Ammonia	NH ₃	17.03	-28	0.62	0.59
Ammonium Chloride*	NH ₄ Cl			1.07	
Ammonium Hydroxide*	NH ₃ OH			0.91	
Ammonium Sulfate*	(NH ₄) ₂ SO ₄			1.15	
Aniline	C ₆ H ₇ N	93.12	365	1.02	
Argon	A	39.94	-302	1.65	1.38
Benzene	C ₆ H ₆	78.08	176	0.88	2.70
Bromine	Br ₂	159.84	138	2.93	5.52
Butane	C ₄ H ₁₀	58.10	31	0.58	2.07
Calcium Carbonate*	CaCO ₃			1.48	
Calcium Chloride*	CaCl ₂			1.23	
Calcium Hydroxide*	Ca(OH) ₂			1.31	
Carbon Dioxide	CO ₂	44.01	-109		1.52
Carbon Disulfide	CS ₂	76.10	115	1.29	2.63
Carbon Monoxide	CO	28.01	-314	0.80	0.97
Carbon Tetrachloride	CCl ₄	153.84	170	1.59	5.31
Chlorine	Cl ₂	70.91	-30	1.42	2.45
Chromic Acid	H ₂ CrO ₄	118.03		1.21	
Citric Acid	C ₆ H ₈ O ₇	192.12		1.54	
Copper Sulfate*	CuSO ₄			1.17	
Cyclohexane	C ₆ H ₁₂	84.13	177	0.78	2.91
Cyclopentane	C ₅ H ₁₀	70.10	121	0.75	2.42
Diethylamine	(C ₂ H ₅) ₂ NH	73.12	133	0.71	
Ethane	C ₂ H ₆	30.05	-128	0.57	1.05
Ethyl Chloride	C ₂ H ₅ Cl	64.50	55	0.90	2.22
Ethylene	C ₂ H ₄	28.04	-155		0.97
Ferric Chloride*	FeCl ₃			1.23	
Flourine	F ₂	38.00	-305	1.11	1.31
Formaldehyde	H ₂ CO	30.03	-6	0.82	1.08
Formic Acid	HCO ₂ H	46.03	214	1.23	
Freon	CCl ₂ F ₂	120.90	-18	1.35	4.17
Furfural	C ₅ H ₄ O ₂	96.08	324	1.16	
Gasoline	C ₆ H ₁₄	86.20	145		
Glycerine	C ₃ H ₈ O ₃	92.09	554	1.26	
Glycol	C ₂ H ₆ O ₂	62.07	387	1.11	
Helium	He	4.003	-454	0.18	0.14
Heptane	C ₇ H ₁₆	100.20	209	0.69	3.46
Hexane	C ₆ H ₁₄	86.14	156	0.66	2.98
Hydrochloric Acid	HCl	36.47	-115	1.64	
Hydrofluoric Acid	HF	20.01	66	0.92	
Hydrogen	H ₂	2.016	-422	0.07	0.07
Hydrogen Chloride	HCl	36.47	-115		1.26
Hydrogen Peroxide	H ₂ O ₂	34.016	185	1.44	
Hydrogen Sulfide	H ₂ S	34.07	-76	0.79	1.17

Physical Constants of Various Fluids (Continued)

Fluid	Formula	Molecular Weight	Boiling Point at 14.696 psia °F	Specific Gravity	
				Liquid (Water=1.00)	Gas (Air=1.00)
Isopropyl Alcohol	C ₃ H ₈ O	60.09	180	0.78	2.08
Kerosene	C ₉ H ₂₀	128.30	278	0.75	
Magnesium Chloride*	MgCl ₂			1.22	
Magnesium Hydroxide*	Mg(OH) ₂			1.34	
Mercury	Hg	200.61	670	13.60	6.93
Methane	CH ₄	16.04	-259	0.43	0.56
Methyl Bromide	CH ₃ Br	94.95	38	1.73	3.27
Methyl Chloride	CH ₃ Cl	50.49	-11	0.99	1.74
Methyl Ethyl Ketone	CH ₃ CH ₂ COCH ₃	72.10	176	0.81	
Naphthalene	C ₁₀ H ₈	128.16	424	1.14	4.43
Nitric Acid	HNO ₃	63.02	187	1.50	
Nitrobenzene	C ₆ H ₅ NO ₂	123.08	410	1.20	
Nitrogen	N ₂	28.02	-320	0.81	0.97
Nitrous Oxide	N ₂ O	44.10	-126	1.98	1.52
Octane	C ₈ H ₁₈	114.20	258	0.71	3.94
Oxygen	O ₂	32.00	-297	1.14	1.105
Pentane	C ₅ H ₁₂	72.12	97	0.63	2.49
Phenol	C ₆ H ₅ OH	94.10	358	1.07	
Phosphoric Acid	H ₃ PO ₄	98.00	415	1.83	
Potassium Chloride*	KCl			1.16	
Potassium Hydroxide*	KOH			1.24	
Propane	C ₃ H ₈	44.10	-44	0.59	1.55
Sodium Carbonate*	Na ₂ CO ₃			1.38	
Sodium Chloride*	NaCl			1.19	
Sodium Hydroxide*	NaOH			1.27	
Sodium Sulfate*	Na ₂ SO ₄			1.24	
Sodium Thiosulfate*	Na ₂ S ₂ O ₃			1.23	
Starch	(C ₆ H ₁₀ O ₅) _x			1.50	
Styrene	C ₈ H ₈	104.10	293	0.91	3.60
Sugar Solutions*	C ₁₂ H ₂₂ O ₁₁			1.10	
Sulfur Dioxide	SO ₂	64.60	14	1.39	2.21
Sulfuric Acid	H ₂ SO ₄	98.08	626	1.83	
Tetraethyl Lead	Pb(C ₂ H ₅) ₄	323.40	195	1.66	
Toluene	C ₇ H ₈	92.10	231	0.87	3.18
Trichloroethylene	CHCl:CCl ₂	131.40	188	1.46	
Water	H ₂ O	18.016	212	1.00	0.62
Zinc Chloride*	ZnCl ₂			1.24	
Zinc Sulfate	ZnSO ₄			1.31	

* Aqueous solution - 25% by weight of compound