

Q-DUCT FLANGE VAV

Duct VAV Temperature Sensor

FEATURES

- Durable injection-molded plastic mounting flange
- 2', 6', 9' or 12' plenum rated cable included
- Available in 4" and 6" probe length
- AISI 316 stainless steel temperature probe
- Patent Pending Quick Connect System eliminates wire nuts
- Installed anti-vibration pad on flange
- NTC thermistors and RTD elements available
- Compatible with any Control System
- CE & RoHS compliant
- 5 Year Limited Warranty
- Made in the USA



GENERAL INFORMATION

High quality universal Duct / VAV Temperature Sensor with injection-molded plastic flange and stainless steel AISI 316 probe provides a low-cost solution for both commercial and industrial applications where a sensor enclosure is not required.

Available measuring elements interface with all major control manufacturers. Accurate thermistors and RTD's ensure low drift and are double encapsulated to guarantee the highest reliability.

The installed, high quality, closed cell foam ensures sealing of the probe insert and absorption of vibration. The patent pending Quick Connect System makes installation easy and reduces installation costs.

2', 6', 9' or 12' plenum rated cable included.

SPECIFICATIONS

Mounting:	Injection-molded 30% glass-filled nylon flange with two integrated # 8 mounting holes
Probe Length:	4" and 6"
Probe Material:	6mm ($\pm 1/4$ ") AISI 316 stainless steel
Cable:	2', 6', 9' or 12' plenum rated AWG 22 cable

SPECIFICATIONS CONT.

Connection: 2-pole AWG 22-16 / 0.35 - 1.5mm² spring-loaded, Patent Pending Quick Connect System

Sensor Element: Interchangeable NTC thermistor, 2-wire
RTD Pt100, Pt1000, 2-wire
RTD Ni1000-891, Ni1000-TC5, 2 wire

Sensor Value: NTC 10K Ohm type 2 @ 25°C / 77°F
NTC 10K Ohm type 3 @ 25°C / 77°F
NTC 20K Ohm @ 25°C / 77°F
NTC 3K Ohm @ 25°C / 77°F
RTD Pt1000 1000 Ohm @ 0°C / 32°F
RTD Pt100 100 Ohm @ 0°C / 32°F
RTD Ni1000-891 891 Ohm @ 0°C / 32°F
RTD Ni1000-TC5 1000 Ohm @ 0°C / 32°F
(Other elements on request)

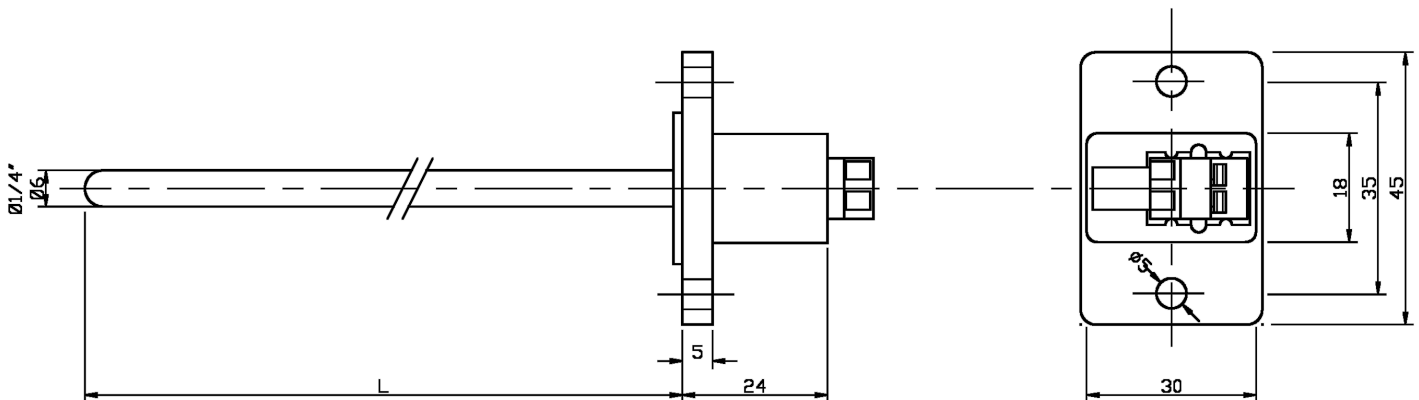
Accuracy: NTC thermistor 0...70°C ± 0.2°C / 32...158°F ± 0.36°F
Pt100 / Pt1000 Class B IEC751, ± 0.3°C / ± 0.5°F @ 0°C / 32°F
Ni1000 DIN 43760, ± 0.5°C / ± 0.9°F @ 0°C / 32°F

Range: -40...105°C / -40...221°F

Approval: CE & RoHS compliant

Warranty: 5 year limited warranty

DIMENSIONS (in mm)



ORDERING INFORMATION

HOW TO BUILD A TASSERON Q-DUCT FLANGE VAV PART NUMBER

Sample Part Number (THTVFA46) —Q-Duct Flange VAV sensor with 10k Type 2 element, 4" probe and 6' cable.

T H T V F A 46

T	H	T	V	F	A	46
Tasseron	HVAC	Temp	VAV	Flange	Element	Details
					A—10K -2	42 —4" probe, 2' cable
					B—10K -3	46 —4" probe, 6' cable
					C—20K	49 —4" probe, 9' cable
					D—3K	4D —4" probe, 12' cable
					E—Pt1000	62 —6" probe, 2' cable
					F—Ni1000-891	66 —6" probe, 6' cable
					G—10K-4	69 —6" probe, 9' cable
					H— Pt100	6D —6" probe, 12' cable
					I—4.7K	
					J—10K-3 (11K)	
					K— Ni1000-TC5	
					*Other elements available on request	

MAKE ANY TASSERON DUCT SENSOR A VAV SENSOR

ACCESSORIES

Part #	Optional VAV Plenum Rated Cable	* For Use With Any Tasseron Duct Sensor
THXVAV06	6' Length	
THXVAV09	9' Length	
THXVAV12	12' Length	

HVAC temperature measuring elements

R/T TABLES

Temp		NTC thermistors					RTD elements			
		curve A	curve B	curve G	curve C	curve D	curve E	curve F	curve H	curve K
		NTC 10K type 2	NTC 10K type 3	NTC 10K type 4	NTC 20KOhm	NTC 3KOhm	Pt1000/B	Ni1000-891	Pt100/B	Ni1000-TC5
°C	°F	R (kOhm)	R (kOhm)	R (kOhm)	R (kOhm)	R (kOhm)	R (Ohm)	R (Ohm)	R (Ohm)	R (Ohm)
-40	-40	341.4	242.1	191.9	784.6	97.40	843	697	84.3	831
-35	-31	246.2	181.0	146.6	558.8	71.53	862	719	86.2	851
-30	-22	179.5	136.6	112.9	402.7	52.80	882	743	88.2	872
-25	-13	132.2	103.9	87.59	293.6	39.16	902	766	90.2	893
-20	-4	98.34	79.64	68.47	216.3	29.24	922	790	92.2	914
-15	5	73.73	61.54	53.91	160.7	22.04	941	815	94.1	935
-10	14	55.78	47.91	42.74	120.5	16.74	961	839	96.1	956
-5	23	42.59	37.57	34.11	91.07	12.79	980	864	98.0	978
0	32	32.82	29.66	27.40	69.40	9.856	1000	891	100.0	1000
5	41	25.52	23.57	22.14	53.33	7.663	1020	916	102.0	1022
10	50	19.97	18.85	17.99	41.28	5.999	1039	942	103.9	1045
15	59	15.75	15.17	14.72	32.18	4.729	1058	968	105.8	1068
20	68	12.51	12.28	12.09	25.28	3.754	1078	994	107.8	1091
25	77	10.00	10.00	10.00	20.00	3.000	1097	1021	109.7	1114
30	86	8.048	8.184	8.308	15.92	2.416	1117	1048	111.7	1138
35	95	6.516	6.735	6.936	12.75	1.957	1136	1075	113.6	1162
40	104	5.306	5.577	5.819	10.27	1.595	1155	1102	115.5	1186
45	113	4.345	4.641	4.904	8.320	1.307	1175	1130	117.5	1210
50	122	3.578	3.877	4.151	6.779	1.076	1194	1158	119.4	1235
55	131	2.962	3.261	3.529	5.556	0.888	1213	1187	121.3	1260
60	140	2.464	2.756	3.012	4.577	0.737	1232	1216	123.2	1285
65	149	2.060	2.340	2.582	3.788	0.616	1252	1245	125.2	1311
70	158	1.730	1.996	2.221	3.150	0.518	1271	1274	127.1	1337
75	167	1.460	1.707	1.918	2.630	0.441	1290	1304	129.0	1364
80	176	1.236	1.466	1.663	2.206	0.377	1309	1334	130.9	1390
85	185	1.051	1.264	1.446	1.857	0.324	1328	1365	132.8	1417
90	194	0.896	1.095	1.262	1.570	0.278	1347	1396	134.7	1444
95	203	0.767	0.952	1.105	1.333	0.239	1366	1427	136.6	1472
100	212	0.659	0.831	0.970	1.136	0.206	1385	1459	138.5	1500
105	221	0.569	0.728	0.855	0.972	0.179	1404	1491	140.4	1528
110	230	0.493	0.640	0.755	0.834	0.156	1423	1524	142.3	1557
115	239	0.428	0.564	0.669	0.719	0.136	1442	1556	144.2	1586
120	248	0.374	0.499	0.594	0.621	0.119	1461	1590	146.1	1615
125	257	0.327	0.443	0.529	0.539	0.105	1479	1623	147.9	1645

* Other elements on request

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