



SURFACE SENSOR FOR HIGH REL & AEROSPACE

SPECIFICATIONS

- ESCC Qualified
- 15K Ohms Resistance @25°C
- Excellent stability
- Flight heritage
- Robust construction
- Non ITAR restrictive
- Flat surface for ease of mounting
- Approved by prime contractors
- Based on Detailed Specification 4006014
- ESCC Part No. 400601408

FEATURES

- Flat aluminum housing
- Temperature range -60°C to +160°C
- Radiation cross linked modified fluoropolymer insulation

APPLICATIONS

- Satellite electric motors.
- Monitoring of gearboxes in satellites.
- Temperature compensation.
- Battery power packs.
- Vision systems
- Panel temperature measurement
- Monitoring of actuators.

HIGH REL SURFACE SENSOR

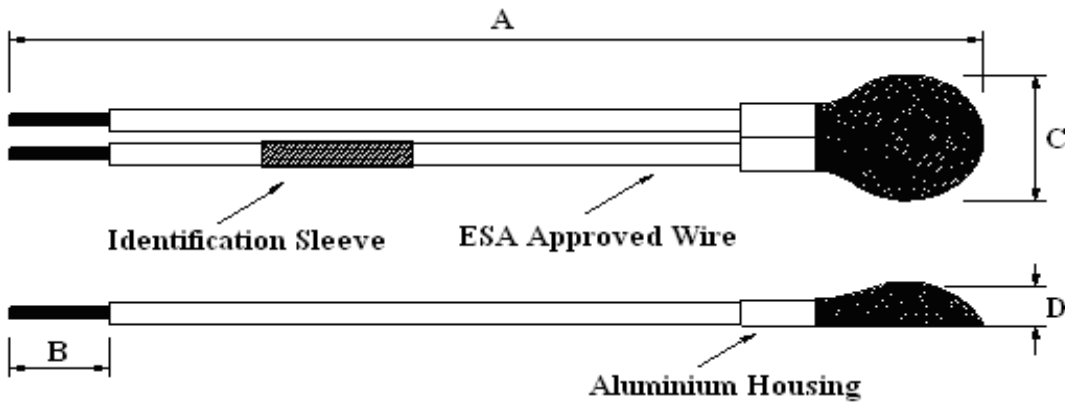
Matched Glass Coated NTC Thermistor Beads mounted on an aluminum alloy housing and encapsulated in Epoxy Resin. Wire connection is by 26AWG stranded / insulated leads. Lead wire is in accordance with ESCC Detail Specification no. 3901/012 variant 03

Note: Lead Wire not to be cut to less than 50mm from Thermistor Head

PERFORMANCE SPECS

Parameters	Units	Value
Zero power Resistance at +25°C	Ohms	15,000
Tolerance @ -60°C	%	± 10
Tolerance @ -40°C	%	± 6.3
Tolerance from 0°C to +100°C	%	± 1
Tolerance @ +125°C	%	± 2
Tolerance @ +140°C	%	± 3
Tolerance @ +160°C	%	± 4
Beta Value 25/85	K	3695
Resistance 0/70 slope	--	14.76
Operating range	°C	-60 to +160
Power dissipation	mW	2 max
Thermal time constant	Sec	25 max
Weight	G	2.3 max

Mechanical Details



Dimensions			
A	B	C	D
381 ± 25mm	6.5 ± 1mm	6.6mm maximum	2.4mm maximum

RESISTANCE V TEMPERATURE TABLE

Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms
-60	1,342,000	5	35,300	65	3,531	120	745.3
-55	957,000	10	28,230	70	3,009	125	659.8
-50	690,000	15	22,730	75	2,576	130	585.9
-45	503,700	20	18,410	80	2,213	135	521.7
-40	371,300	25	15,000	85	1,908	140	465.5
-35	276,200	30	12,300	90	1,652	145	416.7
-30	207,500	35	10,130	95	1,434	150	373.6
-25	157,200	40	8,397	100	1,250	155	336.7
-20	120,100	45	6,995	105	1,094	160	302.4
-15	92,600	50	5,855	110	959.4		
-10	71,940	55	4,923	115	844.3		
-5	56,310	60	4,106				
0	44,420						

ORDERING INFORMATION

Part Number	Description	Ω @25°C
GAG15K4D489	Surface probe, hi-rel	15,000

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
1711 139th Lane NW
Andover, MN 55304
Tel: +1 763 689 4870
Fax: +1 763 689 5033
customer@te.com

te.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties (MEAS), American Sensor Technologies (AST), TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity Ltd. family of companies All Rights Reserved.

EUROPE

Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Ballybrit Business Park
Galway Ireland
Tel : +353-91-753238
Fax : +353-91-770789
Email: customer@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
No. 368 Wulian 1st Road
Gongxing Town
Shuangliu, Chengdu
Sichuan, 610200
China
Tel: +86 (0) 28 8573 9088
Fax: +86 (0) 28 8573 9070
Email: customer@te.com