



T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

GE-1920

Temperature Sensor



This sensor was developed to be used to measure refrigerant temperature, but can be used in a variety of applications in light environments.

Applications

- High & Low pressure refrigerant temperature
- Oil temperature

Features

- High accuracy and long term stability
- Integral connector
- Existing field proven design
- Alternate RVT curves possible
- Other resistance and beta values possible

GE-1920 Specifications

Operating Temperature Range

-40 to 100°C

Storage Temperature Range

-40 to 125°C

R @ 25°C

2828Ω

Response time

≤14 seconds

Housing Material

Zinc Plated Steel

Weight

~14 g

Connector:

Packard Electric Micro-Pack

Mating Connector

Splash Resistant Connection System Components:

Connector Assembly with O-ring, Black : 12092512

TPA Cover Assembly with Gel Sealant: 12092438

Tin plated Female Terminal: 12129361

Non-Sealed Connection System Components:

Connector, Black: 12092405

TPA Cover: 12092407

Tin plated Female Terminal: 12129361

Sealed Connector System Coming Soon

R vs. T		
Temp. (°C)	Resistance (kΩ)	Resistance Tolerance (±%)
-40	94.33	4
-20	27.38	3
0	9.231	2.2
25	2.828	1.3
60	0.703	2.4
100	0.192	3.1

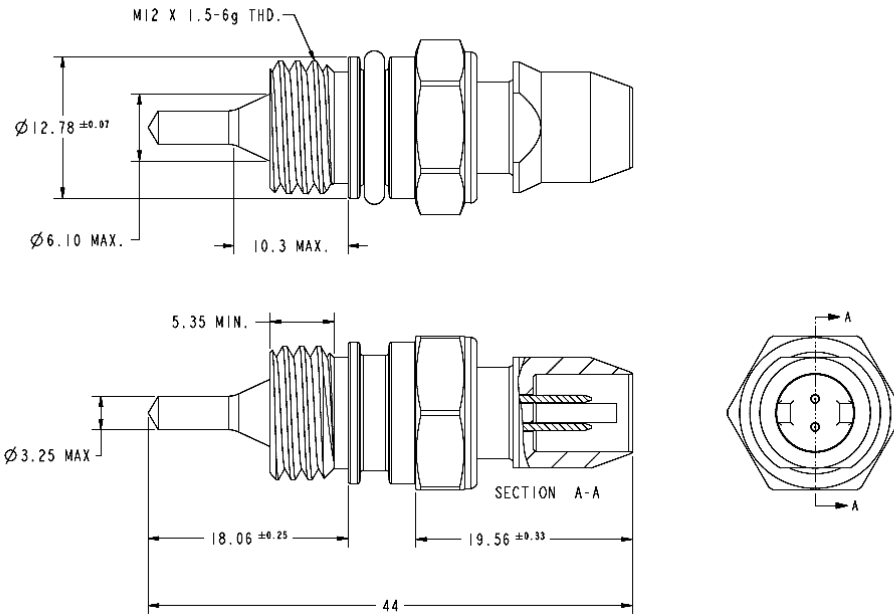
Validation Testing

Test	Passing Criteria
Emissions	830kPa at 65°C, 65°C for 192 hours, No more than 0.4g of refrigerant may be lost
Thermal Cycle	40° to 150°C for 318 hours
Burst Pressure	Increase pressure to 8700kPa at a rate of 100kPa/sec. Hold for 30 sec.
Salt Spray	Tested per ASTM B-117 for 336 hours.
Terminal Test	20N Compressive, 55N Tensile, 25N for each of two primary cross sectional axis of terminal
Housing Test	100N/min Tensile on wiring harness until separation of mating connector or 130N; 1.35Nm to housing connector

Formal validation reports available upon request

GE-1920 Specifications

GE-1920



Mounting Interface

