

APPLICATION

Transport of gases and fluids in manufacturing, laboratory and testing environments, including RATA testing, where consistent temperature control is required. HSL2000 prevents condensation or sample degradation from collection point to destination.

GENERAL DESCRIPTION

The Thermon HSL2000 is a flexible, heated sample line designed for the reliable transfer of gases or liquids in environments requiring precise thermal regulation. Utilizing Thermon Self Regulating and Power-Limiting Heating Cable, this heated sample line offers robust freeze protection and temperature maintenance, and customizable performance to suit specific gas and fluid transfer requirements in ordinary (nonclassified) areas, hazardous (classified areas), and Zone 1 and 2 classified areas.

KEY FEATURES

- Custom Power Density & Lengths: Tailored wattage output 5-20 W/f (16-65 W/m) and configurable line lengths from 3-100 ft. (0.5 to 30 m).
- Thermon Self Regulating Cable or Power-Limiting varies in response to the surrounding temperature by reducing its thermal output with increasing temperature.
- Temperature Control Ready: Integrated Type K Thermocouple, RTD, or Thermistor at key points for precise closed-loop control.
- Flexible Construction: Maintains bend radius <100 mm even at low temperatures.
- Sample Integrity Protection: Maintains internal fluid or gas temperature between 0°C-200°C with ±1°C stability (with controller).
- Insulation: Meta Aramid Felt (up to 1/2" thick) for energy retention and burn protection.
- End Connections: Custom swaged fittings or compression-style, with optional quick connects, or raw tube ends.

CERTIFICATIONS/APPROVALS



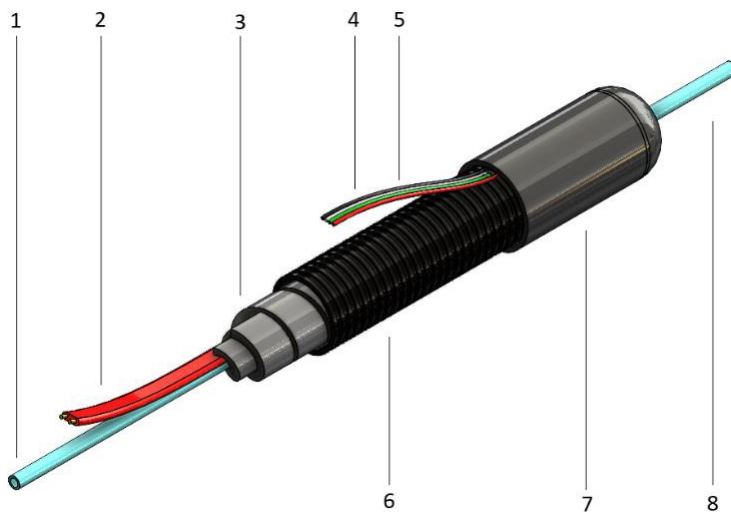
FM Approvals
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 2, Groups B, C and D
Class II, Division 2, Groups F and G
Class III, Divisions 1 and 2
Class I, Zones 1 and 2, AEx eb IIC, AEx tb IIIC



Canadian Standards Association
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 1, Groups A, B, C and D
Class II, Division 1, Groups E, F and G
Class I, Division 2, Groups A, B, C and D
Class II, Division 2, Groups E, F and G
Ex eb IIC, Ex tb IIIC

TECHNICAL SPECIFICATIONS

Parameter	Value/Range
Heating Element	Self Regulating Heat Cable
Heater Jacket	Fluoropolymer Overjacket
Max Operating Temp	Maintain 200C (400F)
Min Bend Radius	100 mm (4 in)
Voltage	120/208/240/277 VAC
Heated Length	Typically 0.5 - 30 meters (1.5-100 ft)
Optional Temp.Control	GHT2002J, ExoTouch, PID
Sensor Options	RTD, Thermistor, Type K, Type J
Tube Material	PFA 3/8" OD x 0.062" Wall
Insulation	1/2" Meta Aramid Felt
Outer Shell	Corrugated Tube Teflon & Alloy Options



HEATER CONSTRUCTION

1. PROCESS TUBE
2. SELF REGULATING OR POWER LIMITING
3. 1/2" META ARAMID FELT INSULATION
4. POWER LEADS
5. OPTIONAL TEMPERATURE SENSOR
6. OUTER JACKET
7. END SEALS
8. OPTIONAL END CONNECTIONS

