



Heat Flux Sensors / Thermal Sensors

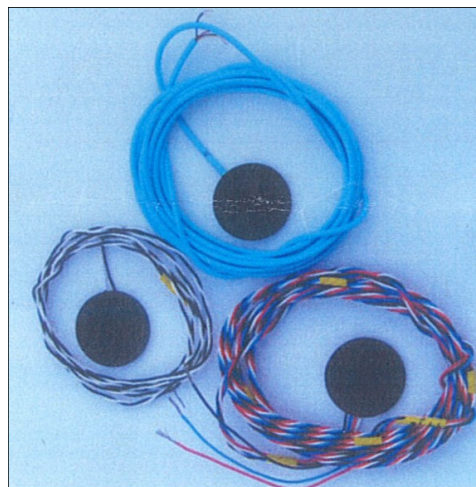
1" (25,4mm) Diameter Disk Version

With integrated Thermistor or Thermocouple for Biomedical and general Research

Series FR-025

Features:

- 1" (25,4mm) Diameter Disk
- Sensitivity, nominal 17 (BTU/ft² Hr.)/mV or 54 (W/m²)/mV
- Temperature Range -22°F to +300°F
or -30°C to 150°C
- Water proof, impervious to high pressure and vacuum
- 10 sec Time Response (63%)
- Thermistor or Thermocouple integrated



Description:

These durable disk Heat Heat Flow Sensor (HFS) generate (emf) millivolts directly proportional to the heat flux passing through it. In addition, the models incorporation a Thermistor or Thermocouple respond at the same time to the temperature. Consequently, The Heat Flux Sensor is equipped to monitor, measure, and/or control simultaneously both heat flux and temperature.

When in operation, the Heat Flux Sensor often integrated into a harness for human beings or directly attached (taped) to human skin. Moreover, the sensor's many fields

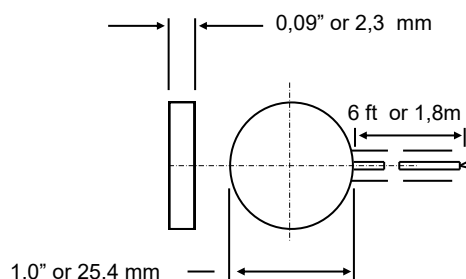
Applications:

- Medical applications like: Anaesthesiology, Hypothermia, Protective Garments, Thermophysiology, Kinetics, Life science,
- Measurements of conductive and convective heat loss in swimming Seller sea lions, ect.

Specifications:

Sensitivity, nominal 17 (BTU/ft² Hr.) or 54 (W/m²)/mV
Thermal Conductivity 0.18 (BTU/ft Hr °F) or 0.316 (W/m °C)
Calibration Each unit is supplied with a Sensitivity Constant traceable to NIST
Temperature Range -22°F to +300°F or -30°C to 150°C
Environment Resistance Water proof, impervious to high pressure and vacuum
Head Flow Sensor Impedance, nominal 300 Ohms
Heat Flux Range 0 to 3000 (BTU/ft² Hr) or 0 to 10.000 (W/m²)
Time Respnse T * (63%): 10 se
Standard Cable Length 6 ft (1,8m) Please ask for special cable length call for special length

Dimensions:



Order number	Model	Type Thermocouple or Thermistor	Type of Cable	Cable Color Coding HFS: Black/White
C01-480-100	FR-025-6	none	26 AWG twisted, TFE insulation	Back/White
C01-480-110	FR-025-T-6	T (Copper/Constantan)	26 AWG twisted, TFE insulation	"T" Blue/Red
C01-480-120	FR-025-K-6	K (Chromel/ Alumel)	26 AWG twisted, TFE insulation	"K" Yellow/Red
C01-480-130	FR-025-TH44033-F6	2252 Ohms @25°C	flexible 33 AWG, Kevlar	Red/Yellow
C01-480-140	FR-025-TH44033-6	2252 Ohms @25°C	26 AWG twisted, TFE insulation	Red/Green
Cable Options (Standard cable length is 6 ft / 2,8m)				
C01-481-100	cable	1 ft. (0,30m) additional cable length		