EXTRATECH
INSTRUMENTS

Wireless Heat Flow Meter

HFM - Heat Flux Meter

www.heatfluxmeter.com

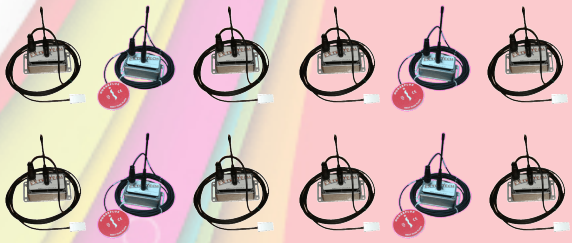
The new heat flow meter **HFM** (Heat Flux Meter) is the ideal tool for in-situ measurement of thermal resistance and thermal transmittance. The new heat flow meter HFM (Heat Flux Meter) is the ideal tool for in-situ measurements of transmittance. This tool is distinguished by the precision of the measurements, the ease of implementation of the campaign of the diagnosis and for the high capacity of customization and expansion of the number and the type of probes.

Our **HFM** can be configured from two temperature probes and one thermal flow probe. The typical configuration is composed of four temperature probes surface wall and one thermal flow sensor.

With the new **HFM** we can meet all requests, from simple applications "entry level" to the more complex for R & D.

The architecture used allows for a modern instrument, accurate, versatile, easy to use and extremely cheap, that is beyond compare on the international stage. In general, such as sensors, pyranometers, hygrometers, humidity, wind gauges, strain gauges, with outputs of 4-20 mA, 0-2.5 V, 0-10V, -50 mV / +50 mV can be integrated into monitoring.

Examples of single-point configurations	
Mini - cod.F1T2	***Eco*** - cod.F1T3
N° 2 T probes (one for internal side and one for external side)	N° 3 T probes (one for internal side and two for external side)
N° 1 Heat flux plate	N° 1 Heat flux plate
	
Standard - cod.F1T4	***Top*** - cod.F2T4
N°4 T probes (two for internal side and two for external side)	N°4 T probes (two for internal side and two for external side)
N° 1 Heat flux plate	N° 2 Heat flux plate
	

Examples of double-point configurations	
Eco-2 - cod.F2T6	***Standard-2*** - cod.F2T8
N°3x2 T probes (one for internal side and two for external side)	N°4x2 T probes (two for internal side and two for external side)
N° 1x2 Heat flux plate	N° 1x2 Heat flux plate
	

Examples of configurations for Research & Development	
RS-1	***RS-2***
N°12 T probes	N°4 T probes
N° 2 Heat flux plate	N° 6 Heat flux plate
	

Specifications:

General:

- Manageable units: **up to 500 devices contemporaries!**
- Internal memory: 32256 samples with date and time
- Protection: IP 65
- Operating Temperature: -40 ° C to +85 ° C
- No. 2 AA Lithium Thionyl (included) with connectors
- Typical battery life: up to 3 years at 25 ° C with sampling every 10 minutes (not in ALERT MODE)

Acquisition of data:

- Recording intervals: selectable by sw
- Clock: Built-in
- Recording media: Internal memory
- Data format: CSV

Data transmission:

- Frequency: ISM 868 MHz
- Receiver sensitivity:-100dBm
- Power transmission: 3dBm
- Free field range: 800m
- Flow in buildings: up to 5 floors

Surface temperature sensor:

- PT1000 class A
- measuring range from -50 ° C to +150 ° C (+ / - 15% IEC 751)
- with 3 m cable

Heat Flow plate:

- Sensitivity (nominal): 50 μV/ Wm^2
- Operating range: -30 ° C to +70 ° C
- Thermal resistance of the sensor: <6:25 10-3 Km2 / W
- range: +2000 to -2000 Wm^2

Typical Kit (standard configuration):

- n.2 T-probe wireless datalogger
- n.1 Heat flux wireless datalogger
- n.4 Temperature contact probe PT1000
- n.1 Heat flux plate
- n.1 Manager software for setup operation
- n.1 Software for U-calculation
- n.1 Antenna for wireless PC connection
- n.1 Pen drive with operating manual (language: italian, english)
- n.1 Transport hard case

We are always looking for the best technical solutions for this reason the configuration and specifications are subject to change without notice.

Come and discover the latest heat flow meter HFM

www.heatfluxmeter.com

Authorized reseller:

Rev.14.6

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