



Wireless Heat Flow Metre

To measure the thermal conductivity of walls and building work
An indispensable aid in order to use thermal insulation and to verify energy loss



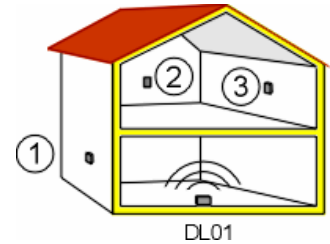
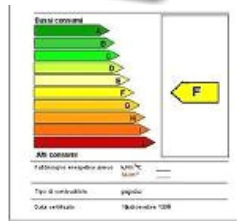
Datalogger / battery charger DL01



Measurement Node



MADE IN ITALY



For the scope of estimating energy consumption and the consequent emissions of CO2 for heating in the winter or cooling in the summer of a building, it is important to establish the measurement of thermal conductivity from its

ThermoZig is the only instrument that allows you to measure thermal conductivity from the non-transparent walls of an entire building (even of large dimensions) in only one session of measurement. Thanks to its wireless connection, it is possible to simultaneously monitor, and even for long periods of time, all of the necessary measuring points. (up to 15).

Compact and easy to use **ThermoZig** offers the following advantages:

- **Sensibility 0.01 w/sqm.**
- **Precision > 5%.**
- **2 models STD and PLUS for small and large environments.**
- Drastic reduction of preparation time for the area of measurement due to the absence of wires.
- Handy positioning on the exterior of two temperature sensors in any point of the office.
- Drastic reduction in measurement session times given it is **possible to measure 15 points simultaneously.**
- High precision of measurement offered by the auto-calibration system of the sensors.
- Measurement device has on lasting rechargeable batteries with battery charger integrated into the data logger.
- Possibility to **collect data even at a distance** (up to 1500 m in open space)
- Directly connectable to a computer with USB
- Possibility to **calculate the conductivity in real time** during the data acquisition stage.
- **Easy to use** (no training necessary)
- **Expandable and connectable to other types of sensors in the DATAZIG catalogue (distributed measurement system)**

AGENCY FOR ITALY



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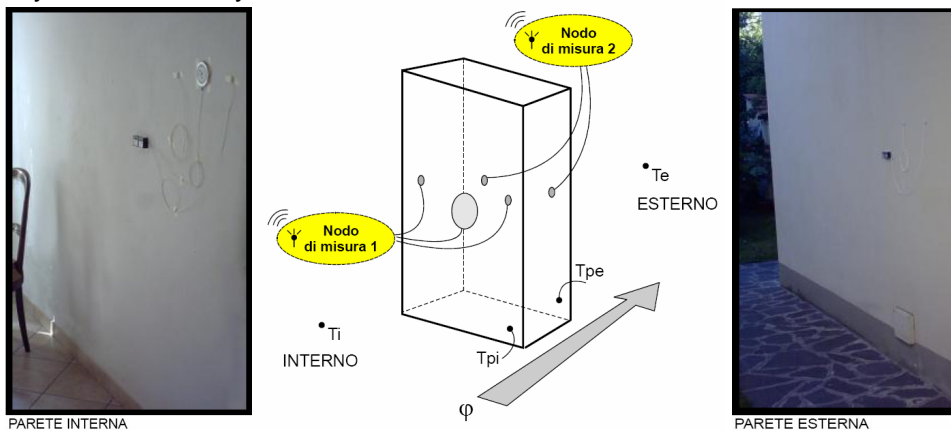
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ThermoZig

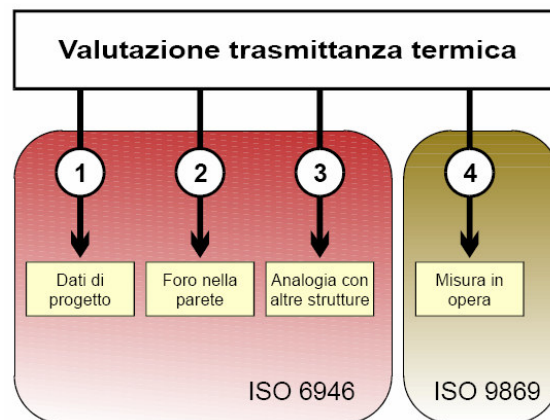
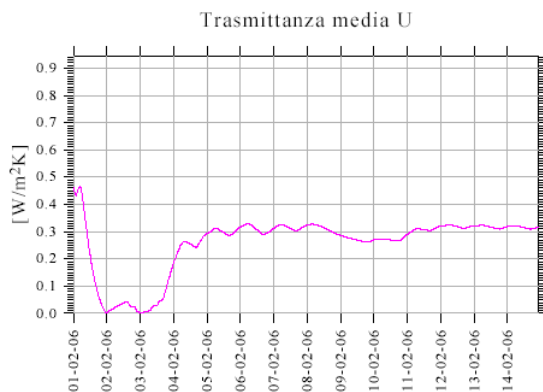
Technical/operative considerations:

- The measurement can require times that are considerably long (even a few days), it is important that the measurement system can operate in an uninterrupted in this period of time, possibly with the building free of obstructions from use. **ThermoZig** is a modest sized wireless system and can be easily installed without bothersome obstructions.

- The calculation of the conductivity requires the sensing of the surface temperature on both sides of the wall. If the wall does not have a hole in the vicinity of the area of interest it can result as being quite complicated to utilise a traditional measurement system with a probe connected by means of electrical wires. The precision of the measurements can also be conditioned by the use of very long wires. The wireless connection resolves this problem quickly and immediately.



- Different from the instruments currently in retail to measure the conductivity of a wall, **ThermoZig**, thanks to the possibility to manage a high number of nodes, which consents the possibility to monitor the thermal conductivity of more walls at the same time and obtain the conductivity relevant to the entire building in one session (very sought after characteristic considering the time required for these types of measurements). At the end of the session of measurement, thanks to the specifically developed software, the data acquired can easily be downloaded onto a computer in the format of a text file to be subsequently analysed and elaborated.



It is also possible to connect a computer to the data logger during the session and simultaneously view the data received deciding on the spot whether more measurements are necessary or not.



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