LSI LASTEM GIDAS TEA (Thermal Environment Application) is a state-of-the-art software suite designed for the most comprehensive thermal analysis available on the market. With the three specific modules of TEA (Moderate/Hot/Cold environment) it is possible to easily carry out ISO index calculations, generate thermal-comfort projects and reports, perform simulations and organize records and results in the database.

BSZ313: Thermal comfort indexes.

Determination and interpretation of thermal comfort using calculations and local thermal comfort criteria for optimal comfort conditions according to the following ISO indexes:
- PMV Predicted mean vote (ISO7730)
- PPD Predicted % of dissatisfied (ISO7730)
- DR Predicted % of dissatisfied by draught (ISO7730)
- TO Operative temperature (ISO7730)

BSZ315: Cold environments

Determination and interpretation of cold stress when using required clothing insulation and local cooling effects to limit the possible decrease of body temperature according to physical thermoregulation activity.
- ITR required thermal insulation (ISO 11079)

BSZ317: Heat stress

Analytical determination and interpretation of heat stress using calculation of the predicted heat strain to avoid dangerous conditions for the health of hot environment workers.
- WBGT Wet bulb globe temperature. Inside/outside (ISO 7243)
- PHS Predicted heat strain (ISO7933:2004)
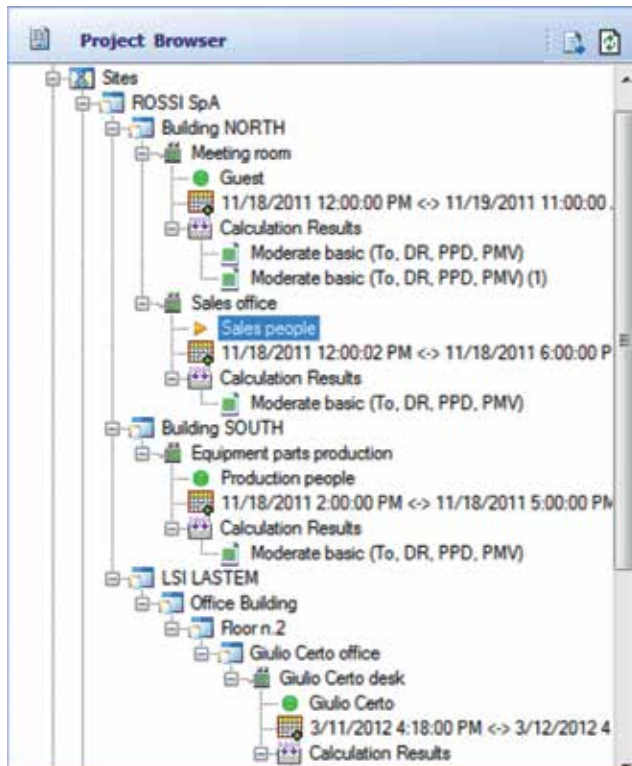
Environment setup
- Organize each measurement location with record information. (Name, place, description, etc.). One or more subjects can be assigned to every measurement location;
- Index calculation for every measurement location and every subject.

interface - **project browser**

○ interface - **Gidas TEA**
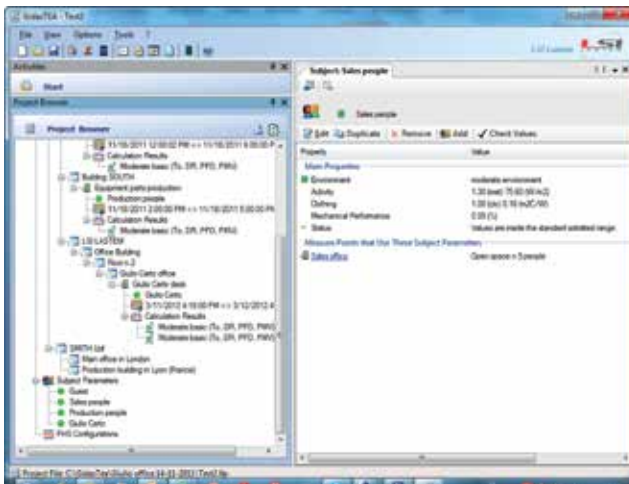
Main

- Data download;
- Measurement site setup;
- Subject parameters (clothing; work efficiency and activity) setup;
- Measurement reports, tables, charts and reports;
- Index calculation and in-depth analysis using different subject parameters (sensing analysis);
- Quick index calculator.

Subject setup

Values setup using tables and pictures from ISO standards, including:
- Subject activity (MET)
- Clothing (Clo)
- Work efficency (ETA)

○ interface - **select subject clothing**

Calculator feature

- Manual entering of Subject parameters (Clo, MET, ETA) and environmental quantities (temperature, RH%, air speed, etc.);
- Sensing analysis of thermal indexes when editing the entered quantities;
- Reports in DocX, Open Office xml (ECMA-376) formats.

Final report

- Tables an charts of measurements and thermal environment indexes;
- Final report, with complete information (measurements positions, subjects, environmental quantities and thermal environment indexes, in charts and summarized tables, with editable records);
- DocX, open office, xml (ECMA-376) document format.

◄ interface - **measurement report**

KeiSon
P R O D U C T S

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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