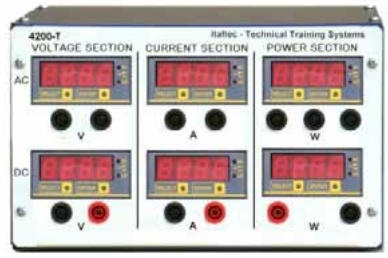
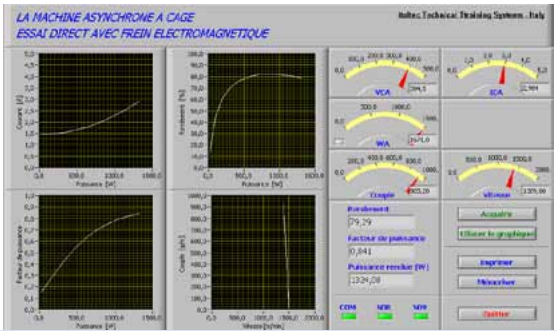
DATA ACQUISITION

EDAS - Emms Data Acquisition System





Software for data measurement and analysis for electric machine

The software provides all the test on the electrical machines both rotating and not rotating.
Designed for use with the EMMS system where a number of measuring instruments are generally required to evaluate the system behaviour.
Used with a PC, the software provides, according with the test to be executed, isolated channel where are shown on-screen virtual instrumentation. All the following are displayed: Ac Dc voltmeters, AC /DC ammeters, AC/DC power meter, RPM, Torque, Frequency and Phase meter. So it is possible to get all the required information.

The set-up of an instrument(s) makes available the indicated values to be saved in files and if required exported to spread-sheet software packages, to enable the results to be evaluated, manipulated or plotted.
A powerful software features is the ability to plot in real-time electrical machines torque/speed curves and associated characteristic, such as output versus torque and efficiency versus output power.
Up to four automatic plots can be run simultaneously with all measured data available for export to spread-sheet software.
Graphical results can be printed from the automatic plotting features.

Features:

- Computer based machines testing system
- For each test, display of all functions and data
- Analogue and digital virtual meter
- User definable meter full scales
- Zoom function on each graph
- Real-time plotting
- Four separate graph plots simultaneously
- Data export facility
- Browser based software

Curriculum coverage:

- AC three-phase asynchronous motors
- AC single-phase asynchronous motors
- AC three-phase synchronous motor
- AC three-phase synchronous generator
- DC motors (Series, Shunt & Compound excited)
- DC Generators
- Single Phase Transformers
- Three Phase Transformers