

HOLMAN ENGINEERING

Special Purpose Machines

Holman Engineering have produced a number of microprocessor based special purpose machines and have also upgraded some existing test and calibration equipment. The photo to the right shows a special purpose machine which was upgraded from an old hard wired control system to a microprocessor based control system. The new control system allowed the old machine to be interfaced to a PC which provided a user interface as well as storing the test results in a centralised database.

Holman Engineering designed the new microprocessor based control system, wrote the PC based software, wrote the Centralised Calibration database and middleware required to retrieve the test results. This complete system stores all test results for all meters no matter which machine type tested the meters. The Centralised database retrieves results from test machines which were built by 4 different companies, and had results in seven different formats (one in Chinese, one in German and the rest in English).

Holman Engineering also wrote a front end application which allows users to access the test results. This application looks after all database maintenance, the printing out of test certificates and the analysis of production information.



This photos shows a complete machine which Holman Engineering have developed and manufactured for Email Meters. This machine required mechanical design, electronics design and software development.

Since designing the first machine, Holman Engineering have manufactured three of these machines for Email Meters.

The machine is designed to automatically calibrate electricity meters by modifying the magnetic permeance of the meter. Calibration data is stored in a database for statistical analysis of production trends.