


Portfolio

CLIENT	Invensys Metering Systems
PROJECT	Hardware & Software Design
PRODUCT	Gas Meter
	ENGINEERING DESIGN DEVELOPMENT CONSULTANCY MANUFACTURE

Invensys Metering Systems is an industry leader in the design, manufacture and supply of metering solutions to gas, water and electricity utilities.

BUY GAS BY THE METER...

After completing the Atmel Consultant Program, PJB Systems Technology were selected as an approved AVR Consultant.

Currently only the second company in the UK to be registered on the Atmel Business Partners List, PJB have won recognition working with Invensys to develop a gas meter communications interface.

PJB were responsible for both electronics hardware and firmware, in the design and implementation of a new communications interface using an Atmel AVR micro controller. This provided the features of low cost, 1K of SRAM and 16K bytes of FLASH memory, 512 bytes of EEPROM and extremely low power making the Mega 16L an ideal choice.

Both top level and low level interface routines were coded in 'C' and compiled using the IAR workbench development tool suite. System test was conducted using a PC and a low level interface test harness was written to provide both display and stimuli similar to that expected from the AVR controller hardware interfaces.



PC serial interfaces were utilised so this software could also be tested and verified by Invensys. The PC test version of the software was then compiled and linked using the Borland C compiler.



CONCEPTION TO PRODUCTION

