



**Project – Business unit**

**Client – Discovery Systems**

**Location – Rainford**

**Completion Date – 2010**



### **Project overview**

Lords Fold is the new business unit for Discovery Systems. The business unit consists of 2-storey unit, and has been designed to illustrate high-tech modern office showing best practice. The unit includes open plan office space, workshop, stores and rest room. The design concept was to create a flexible business unit that could be adapted to meet the changing needs of Discovery Systems and KnX technology and at the same time achieving a low energy operating profile to display to staff and customers.

### **Technology implemented**

KNX and DALI control solution features constant light control, which utilises natural daylight to maintain 450 LUX on the desk, presence detection of lighting, wall switch and scene control, and integrated curtain/blind control using automatic electric curtains and blinds. The control uses a central weather station to detect sun intensity to automatically position the blinds. Communication between the floors is all based around structured wiring and Cat7/5e IP network. Central control and monitoring is achieved via an integrated visualisation and colour touch panel displaying the lighting control, blinds and HVAC control system.

### **Energy efficiency profile**

The business unit is a good example of best practice, low energy sustainable business space. The lighting control system linked with natural daylight saves between 40-60% of the lighting electrical load. The internal control of curtains/blinds reduces the internal solar gain during the summer months by around 30% saving on the requirement for a cooling system. This represents saving in fuel bills.

### **About**

Discovery systems are one of the leading Electrical engineers and Systems Integrators specialising in open intelligent building control and automation using KNX technology. We offer a wide range of control solutions in all market sectors and have a range of project experience throughout the UK.

### **Contact**

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