

CASE STUDY

DISTRICT HOSPITAL IN WINTERSWIJK GETS GOOD QUALITY AND HELP IN FINDING THE RIGHT SOLUTION

In the past few years the Queen Beatrix District Hospital in Winterswijk has implemented several major modernisation projects. System solutions from Datwyler played an important part in all these projects.

Streekziekenhuis Koningin Beatrix (the Queen Beatrix District Hospital) in Winterswijk, SKB for short, is a modern hospital with 314 beds, around 1,100 employed in direct patient care and support services, and over 80 specialist doctors. Together with its outposts the SKB serves the eastern region of Achterhoek, part of the Dutch province of Gelderland, with a population of approximately 150,000.

The emphasis at SKB is not only on excellent basic care and close patient contact. There is also continual investment in medical and technical equipment and new products. Over the past few years this has included three major projects – modernising the operating theatres, upgrading safety technology and improving patient and visitor comfort. Datwyler system solutions played an important part in all these projects.

Christian Pennings, Facility Management Project Leader at the SKB, has a simple explanation: “Datwyler has a large product portfolio, and the quality is good. We also value the close contact, the good advice, and their help in finding the right solution: Datwyler is always open to all our concerns and queries – and always comes up with good suggestions.” At SKB this now covers three areas of the electrical infrastructure: communications network, fire safety technology and building automation.

Fibre-optic network prevents disruption

SKB recently totally refurbished five elderly operating rooms (ORs). This included using miniswitches to connect the rooms’ PCs, medical equipment and video system to the hospital’s fibre-optic network. “We opted for fibre-optic technology in the ORs because it is EMC-proof and guarantees trouble-free systems operation”, says Pennings.

In the Winterswijk hospital, which comprises a complex of eleven one to three storey buildings, all nine plant rooms as well as two data centre sites are now interlinked with OM3 fibre-optic connections. Installatietechniek Enschede B.V., the installation company responsible, has been using cables pre-

fabricated with connectors from Datwyler’s portfolio for years – as they did when modernising and expanding this network.

“We only use prefabricated FO cables because they are quicker and easier to install”, explains Pennings, “more recently in the ORs and now again when constructing the new dialysis centre which we opened in May.”

The recently acquired electronic parking meter system in the visitors’ car park, around 120 metres from the main block, was also cheaply and easily integrated into the SKB network via an optoelectronic switch and fibre-optic cable. Pennings’ department is currently planning video monitoring with IP cameras, and this will also be incorporated in the communications network.

Building automation from Datwyler

SKB’s Technical Services have been familiar with KNX building automation from Datwyler since back in 2003. Today flat Power and Combi cables provide a reliable power supply to all window blinds and to lighting in the corridors, restaurant and outdoor area. At the same time, in combination with decentralised actuators and luminous intensity and wind





measurement on the roof, Datwyler's Combi cables are used for automatic shading and light control. Both systems can also be controlled centrally from various workstations.

Maximum safety for patients, visitors and staff

In the building complex the electricians responsible have also installed numerous Pyrofil fire safety cables and tested components with systems circuit integrity. In the event of fire the certified E30 and E90 systems will ensure that the fire safety installations in the hospital are supplied with power for a defined period (30-90 minutes). This includes the new sprinkler system, for example, which Winkels installed in the foyer of the main block in January 2010 and which is fed by a safety cable system of E90 extended functional integrity. The freshly renovated foyer of the SKB, enlarged from 500 to 1,400 square metres, now provides space for a generous reception area, restaurant and pharmacy.

"Datwyler's material is quick and easy to work with and is always supplied with full test reports," explains Tom Nordkamp, Project Manager at Winkels Installatietechniek Enschede B.V.

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