

SWISS FEDERAL INSTITUTE OF TECHNOLOGY (ETH), ZURICH BUILDING TECHNOLOGY LAB



Address ETH Zürich, Hönggerberg, HIL E15

Carried out Summer 2007

Electrical planning Mister Hächler (Mepart)

Client's representative Mister Schlüter, ETHZ

Customer ETH Zürich Immobilien

- Objectives
- ← Complex light control (office lighting, cove lighting, colour-LEDs, sequences, presence, pushbuttons)
 - ← Can be adapted and reorganised without a system integrator
 - ← Extendable for control of sun-blinds and (experimental) air systems
 - ← Free access for inspection and operation – access via browser (mixed MS and Apple world) for all those present

Secondary objectives

- ← Integration of CO2 concentration measurements and electrical consumption measurements into the field system (for the experimental, scientific work of the chair), monitored, changeable at all times and evaluated by the employees

Scope of project

- ← 2 room areas (large area), 4 zones, 96 dimming data points, 12 Sensing elements CO2+temp in ceiling, motion detector, momentary switch, scenarios and dynamic processes, general switch, control system

Realisation

- ← Standard mivune software with driver for the Beckhoff ADS protocol and the SPS of the BC9000 series, terminals of the KL6811/6001/1404/3403 types

System integration

- ← G. Fritsche, freelance architect

Special programming

- ← Not required

Extension

- ← January 2008: detailed power requirements measurement on 12*3 supply lines.
- ← Expansion of the area, integration of other technologies, additional functions: in preparation