

Rohde & Schwarz Munich (Germany) Reference



Fire protection at the highest level of technology

Rohde & Schwarz GmbH & Co. KG has stood for quality and precision in test & measurement, broadcasting, secure communications, and radiomonitoring and radiolocation for 75 years. The company is a world market leader in EMC test and measurement equipment as well as terrestrial TV transmitters. The electronics group with headquarters in Munich is also among the leading providers worldwide in all its other business fields. Rohde & Schwarz supplies mobile phone manufacturers and network operators, manufacturers of electronic equipment, TV

networks, etc., with innovative solutions and products.

Approximately 7,200 employees currently generate a turnover of 1.4 billion euros (fiscal year from July 2006 to June 2007). In recent years, the company's main focus has been on expanding its international presence. Today, a service and sales network comprising more than 70 subsidiaries and offices worldwide ensures the necessary customer proximity. The share of exports is now about 80 percent.

Rohde & Schwarz is a high-tech company and thrives on innovations. A good 14 percent of the annual turnover therefore goes into research & development.

ESSER

by Honeywell

The task

When the fire detection system was installed on the vast properties of Rohde & Schwarz, which includes approximately 20 separate buildings, the target was to secure all of these buildings with regard to fire protection and to create a network which connects all of them to each other.

The focus lay on protecting the employees, as well as the substantial material assets.

In addition, the possibility of switching off the optical sensors at the soldering workstations had been required. The sensors were to be turned off between 8 a.m. and

4 p.m. in order to be able to prevent false alarms caused by the combustion residues. All the requirements could be one hundred percent fulfilled by the installation company **Elektro Schöffmann, Weilheim**, employing professional ESSER technology.

The solution

In order to network all buildings of this industrial enterprise—including the new technology center—with regard to fire protection, seven IQ8 Control M fire alarm control panels (FACP) were networked via one essernet. Here, one FACP serves as the main control panel which transmits all information for the primary fire department information to a fire department indicator panel should an alarm occur. In order to be able to recognize a fire immediately, and to pass on the respective information to

the fire department, different detector variants were installed on 28 ring loops in the following departments, located in Munich: research and development, management, central distribution, and administration:

- 1,146 IQ8Quad O detectors
- 293 IQ8Quad OT Multisensor detectors
- 277 IQ8Quad O²T/So Multisensor detectors
- 132 IQ8Quad MCP
- 2 ARS 70 aspirating smoke detectors

- 4 line smoke detectors (Fireray)
- 4 line heat detectors (LWM-1)



In 2005, 35 million euros were invested in the 16,000 m² construction

The benefits

Each of the buildings was secured regarding fire protection depending on its functional purpose; the largest part of the rooms is monitored with IQ8Quad O and OT detectors. The object monitoring for the protection of the EDP and transformer room is carried out by two ARS 70 aspirating smoke detectors.

The atrium, which connects two building units via a glass roof and which is used as a cafeteria/lounge and sometimes for events, is monitored by four line smoke detectors, whereas line heat detectors were used to provide a secure feeling in the underground parking lot. Should an alarm be triggered, all persons in

the building are notified of the danger via an alarm sounder, and can seek shelter immediately.

Thus, once informed, the fire department can read all the notifications at a glance in the case of alarm; this is made possible by the fire protection that covers all areas and the uniform and centralized way of displaying on the fire department indicator panel.

Novar GmbH a Honeywell Company

Dieselstraße 2
41469 Neuss, Germany
Phone: +49 2137 17-0 (Administration)
Phone: +49 2137 17-600 (Customer Service Center)
Fax: +49 2137 17-286
Internet: www.esser-systems.com
E-mail: info@esser-systems.com

Honeywell Life Safety Austria GmbH

Lemböckgasse 49
1230 Vienna, Austria
Phone: +43 1 600 6030
Fax: +43 1 600 6030-900
Internet: www.hls-austria.at
E-mail: hls-austria@honeywell.com

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