



DEHN protects.

Bayernoil

Customer

Bayernoil Raffinerie-
gesellschaft mbH

Project

Industry

Petrochemical industry

Application

Internal lightning protection
for the B-Net pipeline system
with condition monitoring

Hardware

BLITZDUCTOR XT,
approx. 600 items

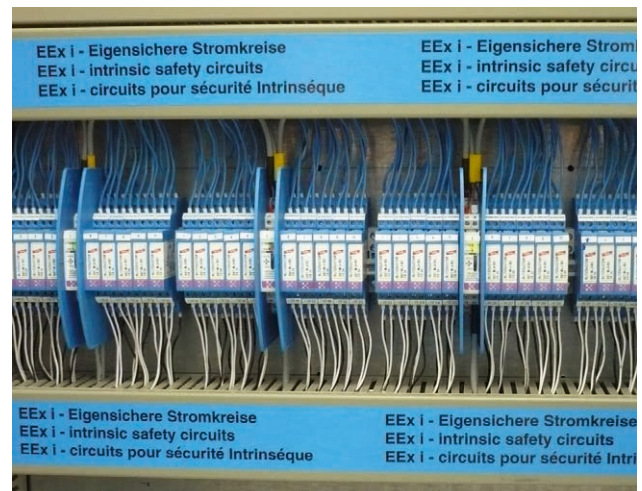
DRC MCM condition
monitoring system,
approx. 70 items

Software

DRC MCM XT

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The BAYERNOIL Raffineriegesellschaft mbH with sites in Neustadt and Vohburg is the biggest refinery in Southern Germany. Extensive modernisation within the scope of the ISAR project recently has been completed. BAYERNOIL, which is owned by OMV Deutschland GmbH, Ruhr Oel GmbH, Eni Deutschland GmbH and BP Europa SE, today is one of the most modern mineral oil processors in Europe.

In Vohburg and Neustadt more than 10 million tonnes of crude oil are annually refined into oil products such as liquefied petroleum gases (propane/propene, butane/butene), petrols (motor fuels), Jet A1 (kerosene), heating oil and bitumen. Refining is carried out day and night, 365 days a year. The BAYERNOIL refineries in Neustadt and Vohburg are linked via a system of 11 pipelines with a total length of about 150 kilometres. The nearby Münchmünster industrial park is also integrated into the product flow. BAYERNOIL provides the site with raw materials and receives intermediate products for further processing. The modern pipeline system B-Net not only ensures reliable supply and transport of products, but also reduces traffic in the Vohburg-Neustadt region.

In order to ensure reliable supply even under lightning conditions, permanently monitored surge arresters from DEHN for the protection of control systems have been installed. Existing surge arresters have been replaced by new intelligent

ones. These new, space-saving DIN rail mounted devices can be easily integrated into already existing installations. Together with the condition monitoring system – permanent status check of the surge arresters – imminent overloads of the arresters are detected in advance and indicated in the measuring station. This allows to take service measures in time. Thus, the high demand of BAYERNOIL on occupational, process and plant safety is also ensured during thunderstorms.

Benefits of the DEHN solution

- ➔ Comprehensive integration and communication possibilities
- ➔ Modular extendible system
- ➔ Permanent monitoring (early warning system) of the surge arresters
- ➔ Space-saving DIN rail mounted devices
- ➔ Minimal wiring
- ➔ Optimal technical support and training of all trades involved in the project