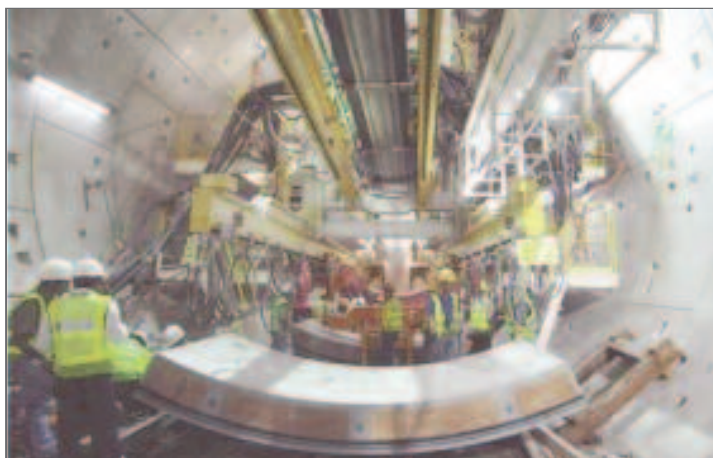


CG APPLICATIONS

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Application Note:	November 16th 2007
Market involved :	Transportation
Product :	EM24 DIN AV53 D DP X
Customer :	Panel builders, System Integrators, Engineering co's
Subject :	Variable control in under-construction railway tunnels

CUSTOMER ISSUE :

In under-construction tunnels, there is the need to continuously monitor the concentration of dangerous gases that can lead to explosions.

In addition, it is very important to monitor the status of the fire prevention pumps, ventilation fans and lighting systems.

This control system requires to be expanded in function of the state of the work and to be continuously adapted according to the different needs of the tunnel yard.

OUR SOLUTION:

Dupline fieldbus/installationbus is already used in tunnel yards to acquire, transmit and control analogue and digital outputs from the gas sensors.

The availability of an instrument like EM24-DIN, equipped with a Dupline port, allows monitoring the instantaneous values and controlling the exceeding of any setpoint of the current, power or power factor of the fire prevention pumps, of the extractor motors, of the mains of the lighting: any anomaly can be immediately detected by the supervision software, whose data are provided by the Dupline system.

Up to 80 instantaneous variables can be controlled in the same network.

ACHIEVED BENEFITS:

The unique features of EM24-DIN can be added to the advantages of the Dupline system in this kind of applications (the long distances, the free topology, etc.). EM24-DIN allows saving space because of its very compact size (4 DIN modules). It is available for external CT measurements, but also in 65 A direct connection version. Furthermore one single EM24-DIN can provide to Dupline up to 8 analogue values, up to 6 meters and 2 alarm status.

These extraordinary features, finally exploitable together, can also be used in similar applications in industries, aqueducts, pumping stations, airports, photovoltaic plants, etc.

