



APPLICATION REPORT

Moisture measurement in coal and coke industry

The OMC 2500 is a contactless measurement of moisture or dry matter content of bulk material, suspension or pasty products.

The measuring method is based on a near-infrared light (NIR), which irradiates the material in a selective wavelength. Depending on the moisture concentration in the product, the NIR light is absorbed by the product and the reflected light detected by the OMC 2500.



The OMC 2500 delivers precise online results, even in difficult industrial process conditions such as dusty or steamy environments, nearly independently of temperature and flow rate.

Knowing the moisture content in the coal is crucial for keeping a stable combustion process or for preparing mixtures in the steel industry.



Due to the utilisation of an NIR light, the dark colour and origin of the coal does not interfere in the measurements. This makes the installation on a conveyor belt simple, resulting in a great control of the moisture of the delivered coal, before mixing or for combustion control.

The OMC 2500 measurement is calibrated using coal samples and analysed at the laboratory with standardised methods, therefore high accuracy and outstanding reliability can be achieved.

