

Product Overview



INDUTECH was established in 1994 and is specialized on high performance online-analysis for process control purposes, and with more than 40 years of experience INDUTECH's Engineers are working mainly in the following fields:ü

Microwave moisture measurements for solid products like:

- Bulk Materials
- Chemicals / Pharma
- Pigment
- Fertilizer
- Wood Chips
- Chip Boards
- Isolating boards
- Ceramic - Powder / -Plates
- Coffee
- Butter
- Tobacco
- Cereals

Microwave moisture measurements in high temperature dryers:

- Gypsum Boards
- Ceramic Plates
- etc.

Microwave measurements in power station:

- moisture of coal
- carbon in flyash

Microwave density or solid content measurements of aqueous solution or slurries:

Optional: Compensation of air bubbles:

- Sugar liquor (brix)
- Crème Fraiche, Yogurt, etc.
- Paper pulp

XRF elemental analysis to determine the chemical composition:

- Coal
- Steel
- Ore
- Cement
- Potash
- Recycling
- Pharma
- Chemical
- Food

XRF thickness measurements of coating:

- Paper
- Glass
- Metal

K - 40 Instruments for the Potash industry:

- Potash content in silos
- Belt potash meter
- Potash belt weigher

GTA Gamma Transmission Analyzers for:

- Ash content of coal
- Calorific value
- Solid and ash content in slurries
- etc.

All systems include a sophisticated evaluation with data acquisition, calibration, visualization and data recording on a PC and an interface to the PLC.

Know How

PMD 2450

Precision Microwave Device - Microwave-Moisture Measurements

The PMD 2450 covers the experience gained over 4 generations of the instruments, based on the microwave transmission and the phase method, which was developed by the founder of the company. The original method was remarkably improved by Indutech. This gains large advantages compared to earlier generations of the instrument, in a noticeably increased accuracy, especially for thin layers, inhomogeneous products and concentration measurements.

GTA

Gamma Transmission Ashmeter

The GTA-product line is based on the well known **Dual Energy Method** with nuclear gamma sources of different energies. This method is known to be strongly influenced by changes of the elemental composition of the ash, especially of the calcium and iron content. To reduce these disturbances Indutech developed the **Triple Energy Method** and solved finally these interferences by a combination of GTA and **OXEA**[®].

OXEA[®]

Online X-ray Elemental Analyzers (Patented)

The **OXEA**[®] product line is based on X-ray fluorescence (XRF) and determines the elemental composition of the measured product. Indutech has modified the well known XRF technique, for online applications. All elements with an atomic number > 10 can be detected down to the ppm-range.

The **OXEA**[®] was at first mainly used in power stations to determine the sulphur and ash content of coal and gives a high level of accuracy obtainable with online analyzers. In the meantime **OXEA**[®] is also used for a large variety of non-coal applications. **OXEA**[®] is protected by several worldwide patents.

K- 40

Natural Gamma Analyzers

The natural gamma radiation of the K 40 isotope is used to determine the potassium content of potash salt in silos, on conveyer belts or in pipes.

All devices are also available as **explosion-proof** versions for zone **21 or 22**.

Service

Remote service per modem or internet connection is available for all devices. This saves time and money.

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