



## ALFA-06/3E Absorption system for on-line monitoring of coal quality

On-line measurement of ash moisture content, calculating calorific value of coal transported on conveyor belt

on-line information about coal quality parameters
 measurement of coal layers from the depth of 50 mm
 contactless measurements in layered coal of different quality
 adapted to work in control systems

- user-friendly software adapted to the needs of the user, on-line work

- simple, easy-to-install construction



ALFA 06-3E



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## ALFA-06/3E

Absorption system for on-line monitoring of coal quality

TECHNICAL DATA

<ul> <li>✓ Type of measurement</li> <li>✓ Type of tested material</li> <li>✓ Grain size of tested coal</li> <li>✓ Depth of coal layer on the belt</li> <li>✓ Range of measuring parameters: <ul> <li>ash</li> <li>moisture</li> </ul> </li> <li>✓ Measuring error specified by the on-line measurement error: <ul> <li>for ash meter in the range 3÷30%</li> <li>for ash meter in the range 30÷95%</li> <li>for moisture</li> </ul> </li> <li>✓ Basic measurement duration: frequency of measurement results visualization</li> <li>✓ Power supply: <ul> <li>ash meter electronic unit</li> <li>✓ Casing protection degree:</li> <li>Ash meter characterictis: <ul> <li><sup>137</sup>Cs</li> <li><sup>241</sup>AM</li> <li>Moisture meter:</li> </ul> </li> </ul></li></ul>
<ul> <li>✓ Standard outputs (optionally)</li> <li>✓ Measurement results visualisation</li> <li>✓ Condition for installation and proper operation</li> </ul>

dynamic, contactless, automatic hard coal 0 ÷ 30 (80) mm 50 ÷ 250 (300) mm

3 ÷ 95% A<sup>r</sup> 3 ÷ 30% W<sup>r</sup><sub>t</sub>

 $\sigma \le 1,5\% \text{ A}^{r}$  $\sigma \le 2\% \text{ A}^{r}$  $\sigma \le 1,5\% \text{ W}^{r}_{+}$ 

multiplied cycle time

230 V AC 50 Hz 24 V DC IP 54

0,555 GBq 11,1 GBq electromagnetic wave with the power of 10 mW RS 422 4÷20 mA current loop monitors, displays all belts have to be standard and non-reinforced; coal of different

non-reinforced; coal of different quality layered centrally on conveyor belts

- ✓ Overall dimensions and weight of the ash meter of moisture meter:
  - mechanical part
  - ash meter electronic block
  - moisture meter electronic block
  - weight
- ✓ Working conditions:
  - ambient temperature
  - relative humidity at 20°C
  - atmospheric pressure

1400×600× s mm (s=belt conveyor width) 280×280×150 mm 140×160×30 mm depending on s - about 200 kg

-10°C ÷ 40°C 20 ÷ 80% 700 ÷ 1060 hPa