

RODOS

Ash meter without isotope



On-line measurement
of the ash content
and mass of hard
coal, brown coal
lignites,
and waste
product

- on-line quality and quantity monitoring of: raw coal, feed for a preparation plant, coal transported from the mine directly to a power plant
- wide measurement area highly representative results
- chemical composition and moisture for the tested material do not affect the accuracy of ash content measurements
- fully secure work



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TECHNICAL DATA

✓ Type of tested material	hard coal, brown coal, lignites
✓ Grain size of coal	0 ÷ 200/300 mm
✓ Minimum depth of the coal layer on the belt	~100 mm
✓ Measuring range	5 ÷ 80%
✓ Measuring error (statistical error, absolute error specified by value) taking into account the sampling error and chemical methods error depending on the type of coal:	
- for the coal of grain size 5 ÷ 80%	$\sigma = 2\% A^a$
- for small coal	$\sigma = 1 \div 1,5\% A^a$
✓ Readout accuracy	0,1%
✓ Type of measurement	dynamic, contactless, automatic
✓ Visualisation of measurements results	on monitor and displays
✓ Outputs	analogue 4÷20 mA, RS-485/422, modems
✓ Rated supply voltage	220 V _{sk} , 50 Hz option: 42 V _{sk} , 50 Hz
✓ Consumed power	< 10 VA
✓ Installation conditions	any type of belt (e.g. reinforced)
✓ Overall size and weight of subassemblies (depending on the width of the belt):	
- casing with the measuring head:	
- length	2500 ÷ 4800 mm
- height	750 ÷ 340 mm
- width	1520 ÷ 2700 mm
- weight	1500 ÷ 2400 kg
- electronic block	280x280x150 mm, 3 kg
- MWT belt-way scales	belt width x 960 mm, 161 ÷ 272 kg
✓ Working conditions	
- ambient temperature	5°C ÷ 40°C, optionally -20°C ÷ 40°C
- relative humidity of air at the temperature 20°C	20% ÷ 80%
- atmospheric pressure	700 ÷ 1060 hPa

The device has been designed to measure the quality of coal in the underground of mines and in coal preparation plants. It is adapted to work in control systems, has user-friendly software adapted to the user's needs, works on-line and makes use of information in the control and supervision system as well as in the production planning system.

Fully secure work - the device does not need admission from the National Atomic Energy Agency in Warsaw.

Anti-explosion structure



IM2Exmb [ia/ib] I

EC-type examination certificate

KDB 06 ATEX 119X

Conformity mark **CE**