

MECONTROL

MECONTROL UBC MECONTROL UBC XT

Sensor type:	UBC sensor	UBC XT sensor
Measurement principle:	microwave	microwave and nucleonic
Measurement range:	0 – 40 % carbon in fly ash	0 – 40 % carbon in fly ash
Measurement accuracy:	+/- 0,6 % based on 1 sigma (0 – 10 %)	+/- 0,3 % based on 1 sigma (0 – 10 %)
Materials:	steel probe with hardened ash auger	steel probe with hardened ash auger
Measuring cycle:	2 – 10 minutes (depending on ash flow)	2 – 10 minutes (depending on ash flow)
Process temperature:	0 – 150 °C (32 – 300 °F)	0 – 150 °C (32 – 300 °F)
Pressure:	- 30 mbar – 0 mbar	- 30 mbar - 0 mbar
Dimensions:	screw insert depth: 300 mm, outside length of shaft and motor: 600 mm	screw insert depth: 300 mm, outside length of shaft and motor: 600 mm
Air consumption:	20l/h@min 3 bar	20l/h@min 3 bar
Degree of protection:	IP 55, NEMA 12	IP 55, NEMA 12
Cabinet		
Number of channels:	4/6/8	4/6/8
Degree of protection:	IP 55, NEMA 12 (IP 66, NEMA 4, upon request)	
Temperature range:	0 – 55 °C (32 – 130 °F)	
Dimensions:	4/6/8 channels: width 800/800/1000 mm, depth 600 mm, height 2000 mm + socket	
Maximum cable length to sensors:	190 m	
Power supply:	1 x 230/110 VAC (L, N, PE), 50/60 Hz or 3 x 400 VAC (L1, L2, L3, N, PE)	
Signal output:	4 – 20 mA	
Remote access:	via modem/internet connection	
Data collection and export via phone line/internet possible. Complete remote access and control!		

Your complete fly ash assessment online!



- ! Online unburned carbon measurement
- ! World's most sold fly ash analyser
- ! Lab accuracy in your process

Technical Changes Reserved

For further information please contact:

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MECONTROL UBC MECONTROL UBC XT

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Online UBC sensor

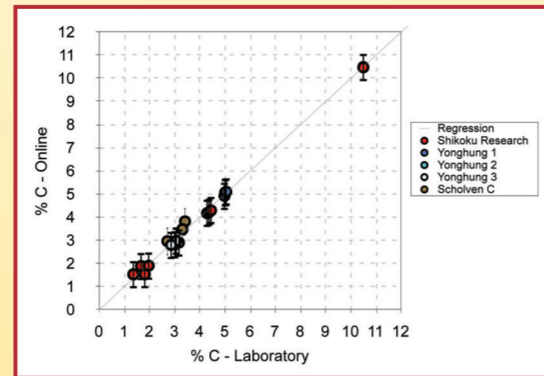
Microwave resonance measurement with patented sample collection and treatment: The most commonly used UBC online sensor worldwide.



Online UBC sensor on an ash bunker.

Online UBC XT sensor

MECONTROL UBC XT measurement provides lab accuracy online in your process.



Accuracy process versus laboratory $\sigma = 0,19\%$

Get deep insight into your combustion and fly ash production process and find answers you always wanted to know:

Does your ash have the right size distribution, the right unburned carbon loss ?

What is your boiler's reaction to coal type changes ?

How far can you adjust O₂ setting in respect to ash quality ?

Does your mill need maintenance ?

Get the answers dynamically online!

The MECONTROL UBC / MECONTROL UBC XT central measurement base station controls all sensors and collates data.

The following capabilities are provided:

- Full SCADA package (optional)
- Digital as well as analogue I/O
- Full access via modem/internet/ethernet
- Large data storage capacity for months of online data logging
- Inputs available for external signals: release signal 24 VDC
- Panel IP 66 rated (optional)



MECONTROL base station

