PROMECON
we focus on your process

MECONTROL

UBC PSA

	UBC sensor	PSA sensor
Number of channels:	4 (standard) up to 8 (add on option)	1 (standard) up to 2 (add on option)
Measurement range:	0 - 20% (standard)	particle size 30 - 6000 µ m, velocity 0.01 - 50 m/s
Measurement accuracy:	+/- 0.6% based on 1 sigma (0 - 10%)	repeatability better than +/- 3%
Materials:	steel probe with hardened conveying screw	ceramic sinter probe, sapphire, epoxy resin optics
Data rate:	2 - 10 minutes (depending on ash flow)	up to 10 000 particles per second, dependent on process conditions
Operating temperature:	0 - 150°C	-20 - 130°C at measuring point, -10 - 60°C on housing
Dimensions:	screw insert depth: 300 mm outside length of shaft and motor: 600 mm	tube length = 280 mm, tube diameter = 25 mm
Air supply:	adjustable air flow	adjustable air flow meters, pulse flow with adjustable timer
Protection:	IP 54, NEMA 12	IP 65, NEMA 4
	Cabinet	
Protection:	IP 54, NEMA 12 (IP 65, NEMA 4, upon request)	
Temperature range cabinet:	0 - 55°C	
Dimensions:	width 800 mm, depth 600 mm, height 2000 mm + socket / 200 kg (441 lbs)	
Maximum cable length to sensors:	70 m to UBC sensor and 100 m to PSA sensor	
Power supply:	1 x 230 V/110 V (L, N, PE), 50 /60 Hz or 3x400 V (L1, L2, L3, N, PE)	
Modem/internet connection:	available	
Data collection and export via phone line/internet possible. Complete remote access and control!		

MECONTROL UBC PSA

Your complete fly ash assessment online!

- **Online unburned carbon measurement**
- **Online particle size measurement**
- **Market leading technology**

For further information please contact:

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MECONTROL UBC PSA

Your complete fly ash assessment online!

Online unburnt carbon sensor

Online UBC sensor on an ash bunker.

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

The sensor delivers online measurement of:
- UBC content in the fly ash

On line ash particle size sensor

New laser based particle size analysis sensor installed on ash hopper outlet.

Laser velocimetry technique provides fast and reliable measurement results.
10 000 particles are counted each second for accurate statistical measurement of the grinding process.

Online measurement of:
- Particle size distribution

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 O_2 setting in respect to ash quality ?

Does your mill need maintenance ?

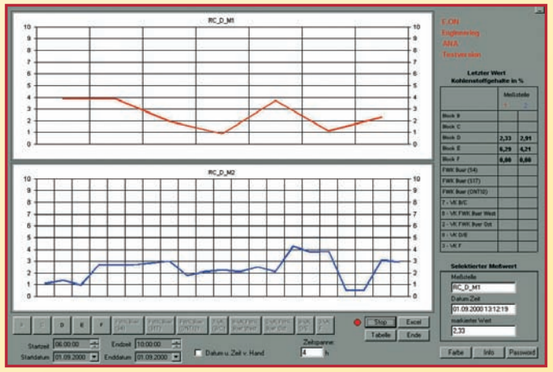
Get the answers dynamically online!

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

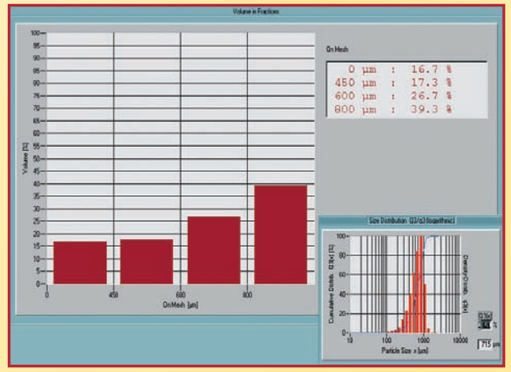
UBC PSA

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: boiler enable signal
- Panel IP 65 rated (optional)

MECONTROL base station



Online data UBC



Online data particle size distribution