DFS
Online Pulverized Coal Mass Flow Measurement

- Real time measurement
- Improve boiler efficiency
- User friendly software
Dynamic Flow System is especially developed to measure on line coal distribution to each business. Connected to the power Plant DCS system, it gives an accurate and reliable measurement which can easily be used to improve power Plant efficiency.

- From 1 mill up to 20 mills
- For all kinds of coal (black, lignite, anthracite, bituminous)
- Independent of fuel quality
- Easily retrofitted to existing pipe

The Dynamic Flow systems identify unbalanced pulverized fuel distribution and helps in:

- Optimizing on line combustion
- Decreasing Loi emission
- Reducing Nox emission
- Improving boiler efficiency
- Decreasing maintenance intervention
- Reducing coal consumption

Dynamic Flow System

- High accuracy
- High repeatability
- Direct reading of coal flow and situation
- On line coal flow balancing
- Large data storage capacity
### Dynamic Flow Cabinet

- Works as an interface between sensors and the plant DCS system
- Control and monitor sensor
- Scales old flow information
- Transfers data to the DCS system
- Data storage
- Connection to the DCS via 4/20 mA outputs
- No air cooling system
- Data configuration software

### Dynamic Flow Software

- Display fuel distribution for each burner
- Identify unbalanced pulverized coal distribution
- Immediate detection warning or errors
- Data extraction available
- Windows 7 or higher
- All languages

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### Dynamic Flow Box

**Electronic Box**

- Provides 24 VDC power supply to sensors
- Bus communication from central cabinet to sensor
- Up to 12 sensors per box

**Extension Box**

- Used when distance between Ebox and sensors is too long
- Up to 3 sensors per box
- IP66

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### Dynamic Coal Sensor

Dynamic Flow is an intelligent non-contact micro-wave sensor, dedicated to online Coal Flow measurement.

- Online measurement
- Contact free
- Robust and adapted to severe environment
- Easy to install and to use
- Very accurate
**DYNAMIC FLOW SYSTEM - Specifications**

**DYNAMIC FLOW SYSTEM**

- **Measuring Capability**: Real time Coal Flow monitoring for up to 8 pipes per mill (no limitation for numbers of mills).
- **Measurement Range**
  - **Mass Flow**: 0-20 t/h for one pipe
  - **velocity**: 10-50 m/s
- **Visualization Software**: Distribution of all mills visible at one Glance. Detail of each pipe available. Data extraction
- **Outputs to DCS**: 4-20 mA (one per pipe). Alternative bus system available (Modbus, Proflibus, Profinet…)
- **Remote access**: Remote control available (Requires Phone or internet connection).

**DYNAMIC COAL SENSOR**

- **Power supply**: 20 / 30 VDC
- **Consumption**: < 0,5 Amps
- **Wave guide Ø**: 20 mm
- **IP**: IP66 (Aluminium Enclosure)
- **Temperature Operating**: -20 °C to 70 °C
  - **Product Temperature**: < 200 °C
- **Accuracy**: +/- 5%
- **Pressure**: < 80 bars
- **Resistance to Abrasion**: High - Sensor head has wear ceramic Protection
- **Output**: Bus communication (2 wires)
- **Weight**: 1,2 kg

**CONTROL SYSTEM**

- **Power supply**: 3 A / 110 VAC - 1,7 A / 220 V
- **Dimensions**: 2000 x 600 x 600 mm
- **IP**: IP55 (sheet Steel)
- **Operating Temperature**: -20°C to 60 °C
- **Weight**: 150 kg

**CONNECTION BOX (E-BOX)**

- **Power supply**: 1,4 A / 110 VAC - 0,7 A / 220 V
- **Outputs Number**: 12 Sensors
- **Dimensions**: 300 x 300 x 200 mm
- **IP**: IP66 (Stainless steel)
- **Operating Temperature**: -20°C to 70 °C
- **Weight**: 6,5 kg

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