



A higher level of performance

## Application Reference

### Reliable level technology for coal fired power stations

**Application problems:**

The client required reliable monitoring of the following level applications for an automation upgrade.

1. Raw Coal Bunker
2. Boiler Coal Bunker
3. Coal on Belt Detector
4. Shuttle/Discharge Wagon Positioning Control

**Solutions:**

1. Raw Coal Bunker: The raw coal bunker was 25 meters (82 ft) high. The level transmitter has to control the shuttle conveyor.

2. Boiler Coal Bunker: The boiler bunker was 20 meters (65 ft) high. The level transmitter was to control the shuttle conveyor.

For application 1 and 2 we provided low frequency 10 kHz loop powered transmitters to overcome dust, rat holing etc.

3. Coal on Belt Detector: Monitoring coal on the conveyor belt. Range 1-5 meters (5 ft).

For application 3 we provided 20 kHz integral transmitter to provide reliable profile height on conveyors.

4. Shuttle Positioning Transmitter: The maximum range was 50 meters (164 ft) for the shuttle conveyor and 195 meters (640 ft) for the coal discharge wagons.

For application 4 we provided our 20 kHz positioning transmitter and for the discharge wagons we provided our 5 kHz positioning transmitter.

**We provided a 24 month performance guarantee on all applications.**

**Part numbering:**

**Application 1 + 2: Coal Bunker Level Transmitter**  
AWI2SB10T4XX11XX+FA10A-4+C10-10-4

**Application 3: Coal on Belt Transmitter**  
AWI234SU20T4TN30XXX+FA4A-4+C04-4

**Application 4: Shuttle Conveyor Positioning (165 ft range)**  
AWI234SU20T4XXXXPS (Slave)+FA4A-4+CO4-4  
AWI234SU20T4XXXXPM (Master)+FA4A-4+CO4-4

**Discharge Wagon Positioning (640 ft range)**  
AWI234SU05T4XXXXPS (Slave)+FA10A-4+C10-05-4  
AWI234SU05T4XXXXPM (Master)+FA10A-4+C10-05-4

*Hawk is a world leader in level, position and flow measurement, providing cutting edge equipment to the global industrial market. We have 30 years of experience and a record of success in a wide range of areas including mining/mineral processing, water supply/waste water, bulk material handling and chemical. Our on-going commitment is to provide industry leading technology and cost effective solutions.*



## Contact

Hawk Measurement Systems Australia  
Phone: +61 3 9873 4750  
info@hawk.com.au

Hawk Measurement US  
Phone: +1 888 429 5538  
info@hawkmeasure.com

For global representatives:  
[www.hawkmeasure.com](http://www.hawkmeasure.com)