



AW-LAKE
PROCESS FLOW MEASUREMENT



APPLICATION SPOTLIGHT
Solar Polysilicon Furnace - Manufacturing



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APPLICATION:

A polysilicon ingot furnace is mainly used for mass production of solar grade polysilicon ingots. The ingot is a large cylindrical crystal grown in the furnace. The final ingot produced will be further processed and cut into very thin wafers which are used for semiconductors and solar cells.

The equipment in the process consists of steel structure parts, furnace body parts, heating & insulation system, vacuum & gas supply system, cooling system, power supply, and control system.

EXTENDED APPLICATION

Industrial furnaces such as monosilicon furnace, polysilicon furnace, and vacuum furnace

PRODUCT SUPPLIED:

- Stainless steel Paddle Wheel with custom electroplate for temperature monitoring

CHALLENGE:

High temperatures in these processes is a factor. The flow meter is being used to monitor the flow of the cooling water as well as the temperature.

SOLUTION:

Using our Flowstat flow meter, we designed a custom solution by incorporating a temperature sensor. This allows for monitoring of both flow and temperature in the cooling system.

FlowStat Paddle Wheel Flow Meter

- 4-20mA, 0-5V, pulse, switching value, 4 types of signals available for selection
- 2% FS high-accuracy measurement
- Visible window + signal output, safe, reliable
- Easy maintenance

