

# Air Products Smart Technology

## Combustion systems beyond just burners



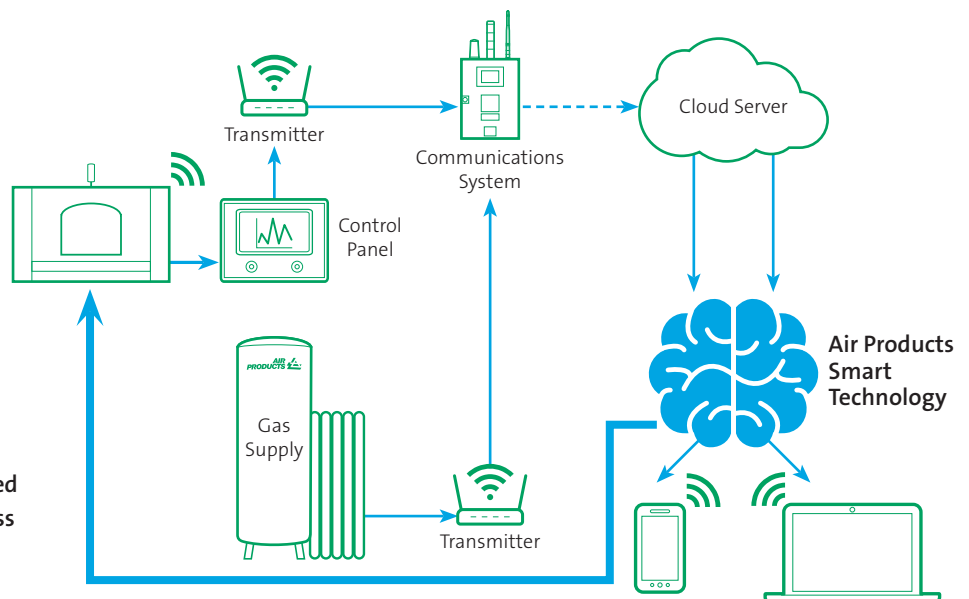
### Features/benefits

- Continuous monitoring of all key parameters
- Data collection onto a single platform combining highest standards of confidentiality and data security
- Data available to key stakeholders from any location with internet access
- User friendly dashboard for 'at-a-glance' data delivery
- Ability to spot trends in datasets for further analysis
- Configurable maintenance alerts for optimal operations

Air Products Smart Technology-based offering use sensor and wireless communications technology to advise process optimisation based on advanced analytics, as well as tracking key process parameters.

### Air Products Smart Technology enabling Industry 4.0 transformation

- Innovative new Air Products combustion systems are equipped with our Smart Technology to help monitor and manage your process continuously 24/7
- Consistent monitoring by our Smart Technology improves production efficiency, significantly reducing potential for human error and improving maintenance practices
- Air Products Smart Technology monitors key process parameters, helping operators achieve their KPIs and determine low performance sequences
- In addition to continuously gathering operation trends for longer term data analysis, our Smart Technology automatically distributes daily reports and real-time key process data
- Air Products Smart Technology is the first step towards Industry 4.0 readiness



# Air Products Smart Technology



## Increased Production

- Increased product yield
- Improved production batch cycles
- Maximised product price based on raw material input



## Reduced Costs

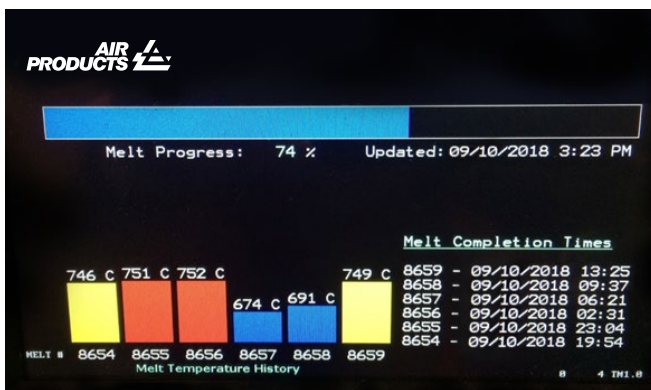
- Reduced O<sub>2</sub>/Ton and natural gas/Ton usage
- Optimized man hours
- Reduced maintenance costs
- Increased efficiency



## Improved Quality

- Consistent product quality assurance

Your personnel can remotely access this data for process management improvement.



Smart Process Advisor

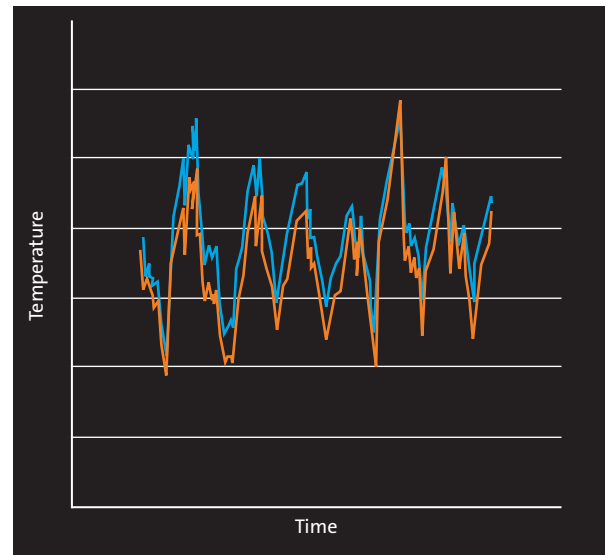
**AIR PRODUCTS**  
Process Intelligence

Production Data Summary:

Furnace 1 Cycle Data

Melt #	Start Time	Stop Time	Batch Gas (Nm3)	Batch Oxygen (Nm3)	Material Charged (kg)	Salt (kg)
8659	09/10/2018 13:25	09/10/2018 13:25	100	100	1000	100
8658	09/10/2018 09:37	09/10/2018 09:37	100	100	1000	100
8657	09/10/2018 06:27	09/10/2018 06:27	100	100	1000	100
8656	09/10/2018 02:31	09/10/2018 02:31	100	100	1000	100
8655	09/10/2018 23:04	09/10/2018 23:04	100	100	1000	100
8654	09/10/2018 19:54	09/10/2018 19:54	100	100	1000	100

Production data report



Tracking key process parameters

For more information, please contact us or visit our website to contact your local representatives.

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