Smart Atmosphere Analysers
Run your furnace more consistently

State of the art atmosphere supply and process management system to:

- Improve product reliability
- Capture relevant atmosphere and process data
- Analyse potential for savings and develop process optimisations
- Allow preventive maintenance

Featuring Air Products Smart Technology – our contribution to the Industrial Internet of Things.

Capabilities:

- **Atmosphere Supply Panel**
  - Accurately control gas flowrate, pressure, and composition to ensure desirable furnace conditions, every time. All data can be uploaded and saved on the cloud. In addition, the composition read out can be used to adjust flowrate automatically. The panel complies with EN 746-3 standards, and all options can be configured to meet customer specifications.
  - Controls for gas flow and gas composition can be customised to range from fully manual to fully automated.

- **Furnace Atmosphere Measurement System**
  - A furnace is only as good as its atmosphere. With Air Products, you can have peace of mind knowing that your furnace atmosphere is meeting specifications. With our gas composition monitoring and control, you monitor gas density, temperature, pressure, and purity in real-time. In addition, the following properties can be managed:
  - Dew point
  - Oxygen level
  - Hydrogen and/or carbon monoxide percentage
  - Carbon potential
  - Additional options available upon request; data tracking and reporting compatible with other smart connected equipment.
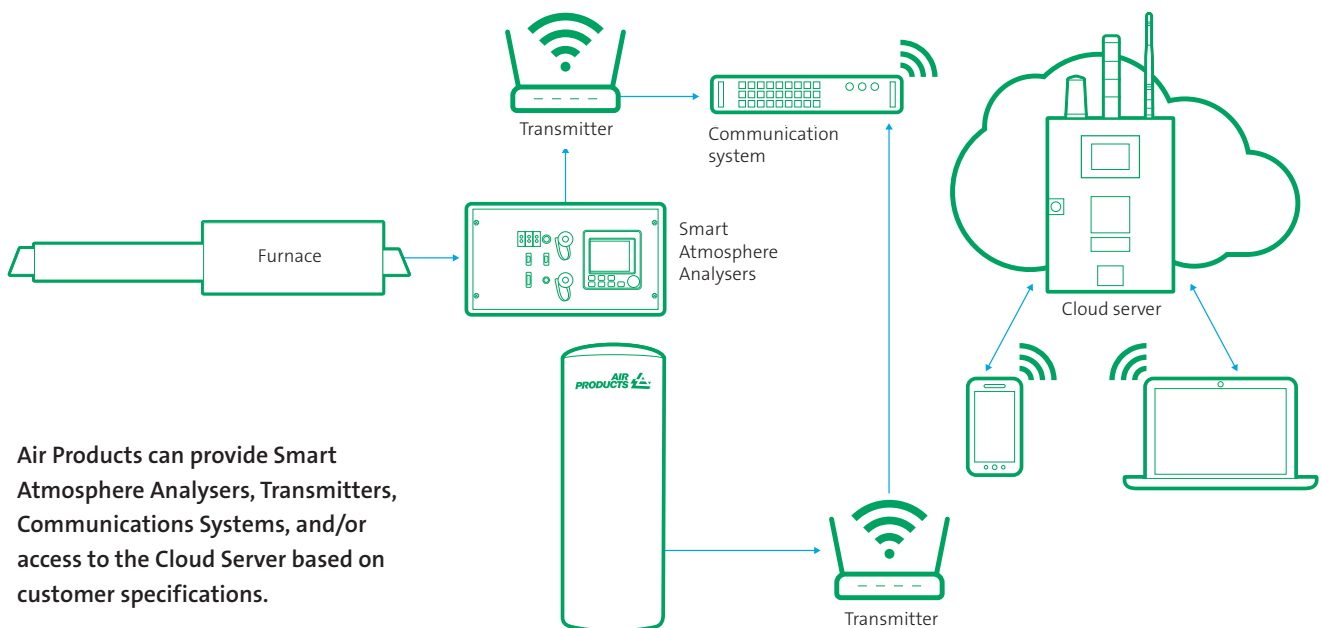
- **Smart Nitrogen-Methanol Lance**
  - Our smart Nitrogen-Methanol lance keeps you updated on the pressure and temperature in real time. By knowing the status of your lance, maintenance can be scheduled proactively, which reduces downtime and keeps your system running at its best.
- **Process Data Acquisition System**
  - The Process Data Acquisition System collects all instrument and equipment parameters in your facility, and stores them in one location. Using smart technology, these systems can share data with each other, and adjust the process accordingly. Plus, the data is stored for your reference.

- **Smart Tank Monitoring**
  - Allows monitoring of gas supply conditions (pressure, liquid level, flow rate).
  - Reliable way to remotely monitor your storage tank levels

With Air Products, you can monitor composition parameters to ensure your furnace is running with the desired gas atmospheres and providing alerts for any needed maintenance or adjustments.

Let Air Products help you monitor, acquire, and store data for:

- Dew point
- Oxygen
- Carbon potential
- Hydrogen
- Binary gas composition
  - Density
  - Temperature
  - Pressure
  - Purity
- Tank liquid level
- Maintenance and adjustment recommendations

Air Products can provide Smart Atmosphere Analysers, Transmitters, Communications Systems, and/or access to the Cloud Server based on customer specifications.

For more information please contact us at:

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