



Get **more** from **less** gas

With our Gastrak[®] Service

Helping you get **more**
from **less** gas.

AIR
PRODUCTS 

GENERATING A CLEANER FUTURE



Use at least 25% less welding gas.

And save money, enhance quality
and improve sustainability.

Every year, welding gas is wasted through leaks from equipment, hoses and connectors, using flow rates higher than the optimum and pre-weld surge. But the Gastrak® Service from Air Products can help you reduce your gas consumption, save money, improve weld quality and reduce the environmental impact of your activities – by helping you get more from less gas.

Technology and expertise

Combining the latest gas-saving technology with their vast expertise, our Gastrak® Service team analyses your current welding process and works closely with you to deliver substantial savings and better management of your resources. Working together we can reduce your gas usage typically by 25% however every welding operation is different and we have seen savings of up to 65%.



The benefits of Gastrak[®] Service



Reduce gas and costs

Using in-line equipment, gas wastage can be eliminated by optimising and locking gas flow rates. Regular service calls from our specialists ensure costs remain low year after year.



Improve quality

Our Gastrak[®] Service team can identify and eliminate leaks which is a major cause of weld defects. Pre-weld surge is also eliminated and a consistent flow rate improves weld quality.



Improve productivity

Better weld quality and no need for post-weld cleaning saves time and cuts the risk of weld defects – while lower gas usage means less time spent handling cylinders.



Easy installation

Gastrak[®] Service equipment can be integrated into an existing or new weld process gas pipeline, or used with traditional or Integra[®] Cylinders.



The benefits of Gastrak[®] e² Service

All the benefits of Gastrak[®] Service plus the following:



Leak Detection

A leak test is available at the touch of a button; both system-wide and at use-points to save gas and improve weld quality.



Flow Consistency

Ensure a consistent flow rate to reduce excess gas consumption and improve weld quality.



Flow Control

To eliminate gas wastage and set-up time, the Gastrak[®] e² Service automatically calibrates the correct gas flow rate for your weld.



Information

The Gastrak[®] e² Service Control & Display Unit lets you fully control flow and supply of gas system-wide, on the factory floor and at use-points.



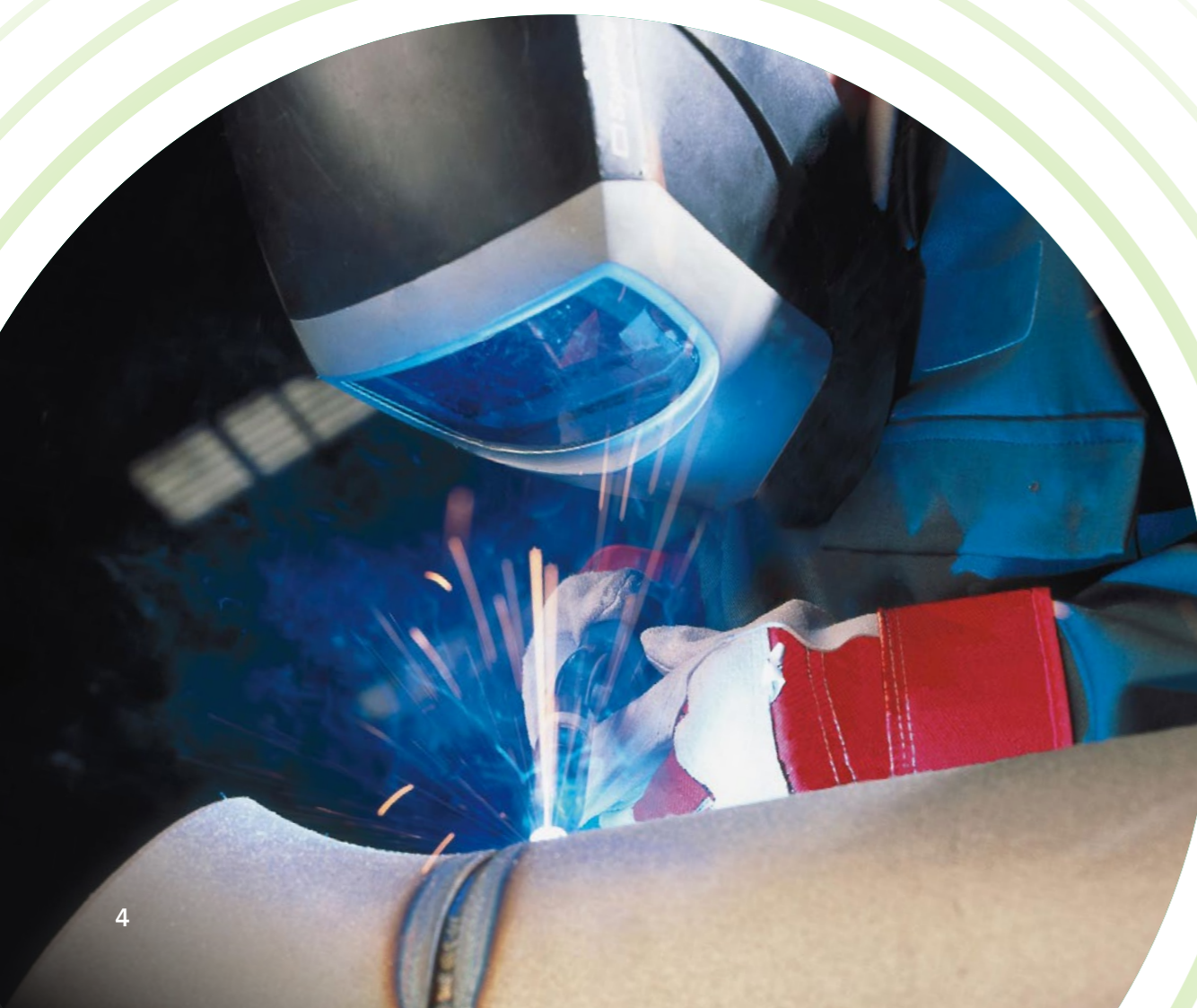
Surge Protection

Eliminate pre-weld surge and ensure the optimum flow rate to save on gas consumption.



Connectivity

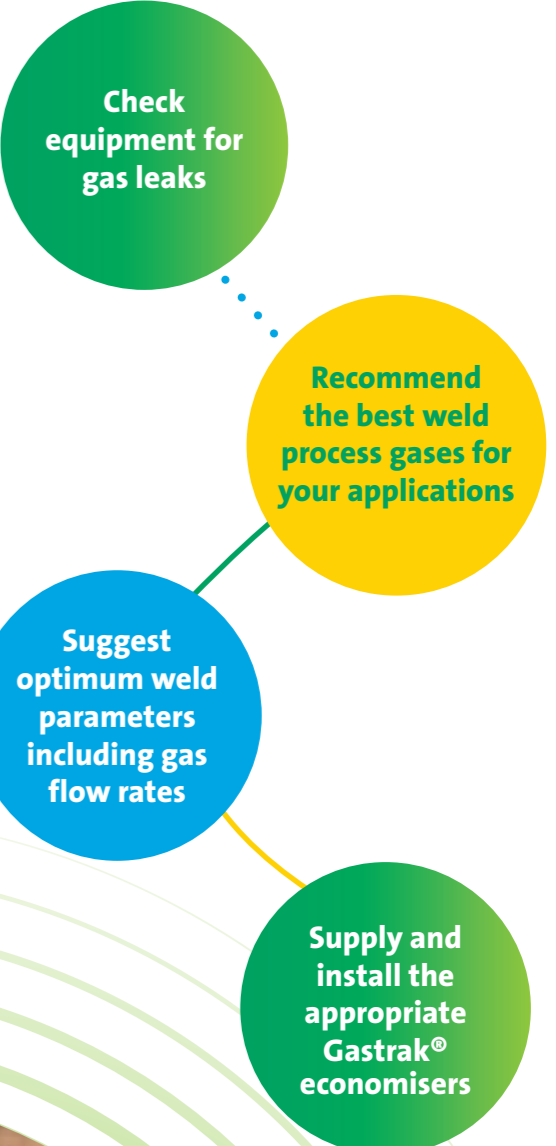
With Gastrak[®] e² Service you can measure your savings, with flow rates, leak-test status and consumption history per installation and use-point available through a secure online dashboard.





Experts on-hand, on-demand.

Once you've agreed to the proposals, our team installs Gastrak® Economisers on your welding equipment – there's no capital investment needed, just a low monthly rental fee. Our Application Specialists will monitor gas usage intensely over the initial two-week period to make sure performance is going to plan, then return regularly – at least every 12 months – to make sure your targets are being achieved. And as a Gastrak® Service customer, you have access to our Application Specialists expertise any time you need it. It's all part of the service.



How Gastrak® locks in the savings.

The service starts with a thorough analysis of your current welding process using independently-calibrated equipment. An Application Specialist from Air Products will identify precisely where you can optimise welding performance and then provide you with a predicted gas consumption saving report, as shown in the example below, which outlines how much you could potentially save. As there's no cost for this service, you really do have nothing to lose.

Helping you get **more** from **less** gas.

Gastrak® Service
Weld Process Gas Flow Evaluation Report for ABC Welding

Helping you get more from gas.

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www.airproducts.com/uk/gastrak

Weld Process Gas Flow Evaluation Report

Company Name: [Redacted]
Customer: [Redacted]
Date of evaluation: [Redacted]
Name of Application Specialist: [Redacted]
Application Specialist email address: [Redacted]
Application Specialist telephone: [Redacted]

Flow Evaluation Report Summary

Average welding gas flow	18.5 (litre)
Average gas pressure	10.0 (bar)
Recommended average gas flow	13.5 (litre)
Gas flow consumption (GPM)	18.5 (litre)
Recommended consumption (GPM)	13.5 (litre)
Approximate savings achievable	27% (litre)

The current gas control equipment being used is unable to stop the gas flow until the gas flow rate is 0. This means gas is being used for a period of time after the gas flow has stopped. This is a common issue with many gas control systems. Gastrak® Economisers ensure that gas flow stops as soon as the gas flow rate reaches 0.

Regulators

We recommend the following regulators, Example 1, Example 2 and Example 3.

Evaluation Results:

Welding gas flow rates were checked at the above pressure by using a calibrated Gas Turbine Flow Meter. The data collected during the trial will be used to identify the gas flow rate and pressure levels. These samples taken over one random working station within the working shift/shifts.

Flow Results Station (1) No Surge Protection in Place/Standard I/O

File Name	File ID	Date	Reference ID
Flow Results Station (1) No Surge Protection in Place/Standard I/O	1	1/1/2020	1

Gas Values

Time (Sec)	Flow (LPM)	Pressure (bar)	Temperature (°C)	Peak (LPM)	Flow (LPM)
0:00	12	11	15	12	12.5
0:05	12	11	15	12	12.5
0:10	12	11	15	12	12.5

Gas Flow (LPM)

Gas consumed: 18.5 LPM

See how you can benefit:

- Reduce gas and costs:** Using in-line equipment, gas wastage can be eliminated by optimising and limiting gas flow rates. Regular service calls from our specialists ensure costs remain low year after year.
- Improve quality:** No gas waste and consistently using optimum gas flow rates improve weld quality and reduce gas costs.
- Improve productivity:** Better weld quality and no need for post-weld cleaning saves time and cuts the risk of weld failure – with lower gas usage means less time spent handling cylinders.
- Long installation:** Gastrak® equipment can be integrated into an existing or new weld process pipeline, or used with traditional or integral cylinders.

Gas related safety observations:



A service to suit your business.

Gastrak® Select

On-site consultation by our Application Specialist, economiser equipment and set-up for medium and larger users.

Gastrak® e² Service

Builds on the Select level of Gastrak® Service using technology unique to Air Products to deliver ground-breaking efficiencies.



Gastrak® Service levels compared.

	Gastrak® Select Cylinders and pipelines (Air Products)	Gastrak® e² Service Cylinders only (Air Products)
Recommending the best weld process gas	●	●
Identifying leaks	During surveys	Automated on-demand e ² system
Equipment visual inspection report	●	●
Conducting gas efficiency survey using calibrated and traceable equipment	●	●
Manual flowtube provided	●	●
Estimating gas saving	●	●
Recommending optimum flows	●	●
Supplying, fitting and setting and locking ¹ economiser units	●	●
Gas flow report	Certificate from Air Products	Certificate from Air Products
Reporting on the gas control equipment used at different stations	●	●
Follow-up visits to ensure optimised flows continue to be realised	●	●
Track total gas consumption and at each use point		●
Pipeline remote shut-off		●
Gas quality monitoring at each use point		●

Gastrak[®] e² Service.

The technology to reduce gas consumption by at least 30%.

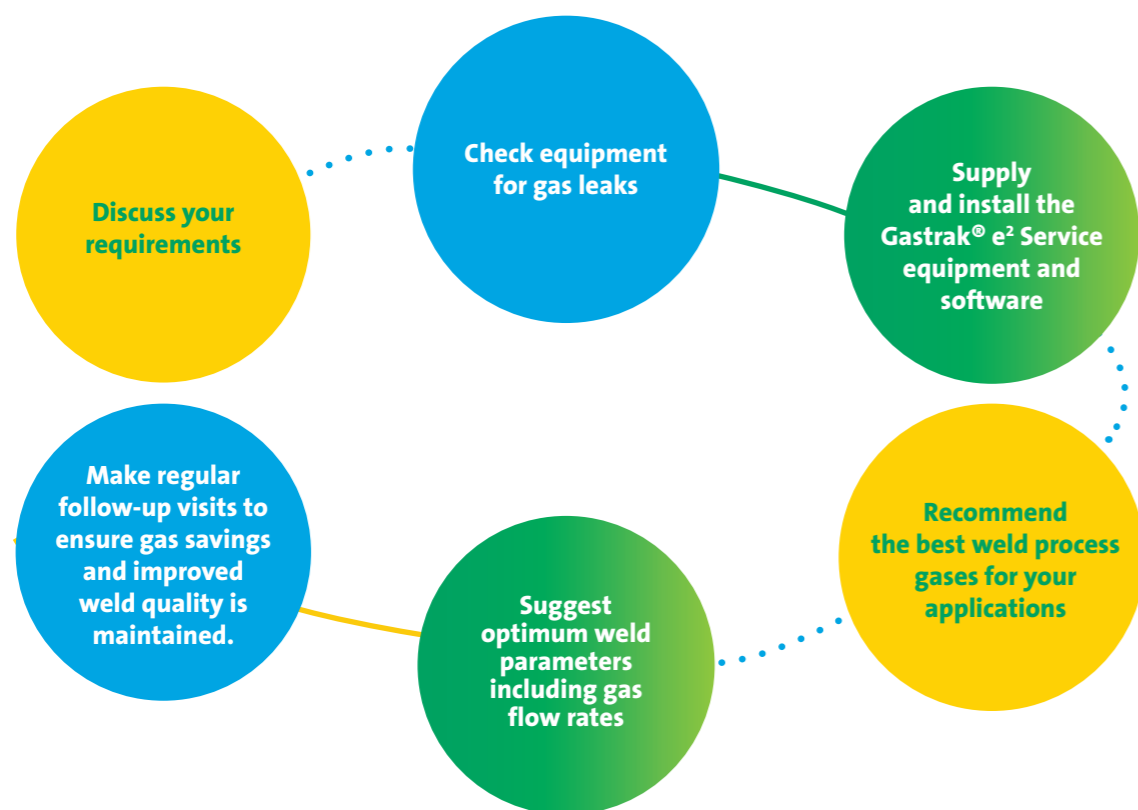
Designed especially for businesses using gas pipelines, Gastrak[®] e² Service combines digital and traditional gas-saving technology. Along with Air Products' expertise, the service delivers substantial cost-savings while allowing you to measure and manage your gas consumption online.

Save money – immediately

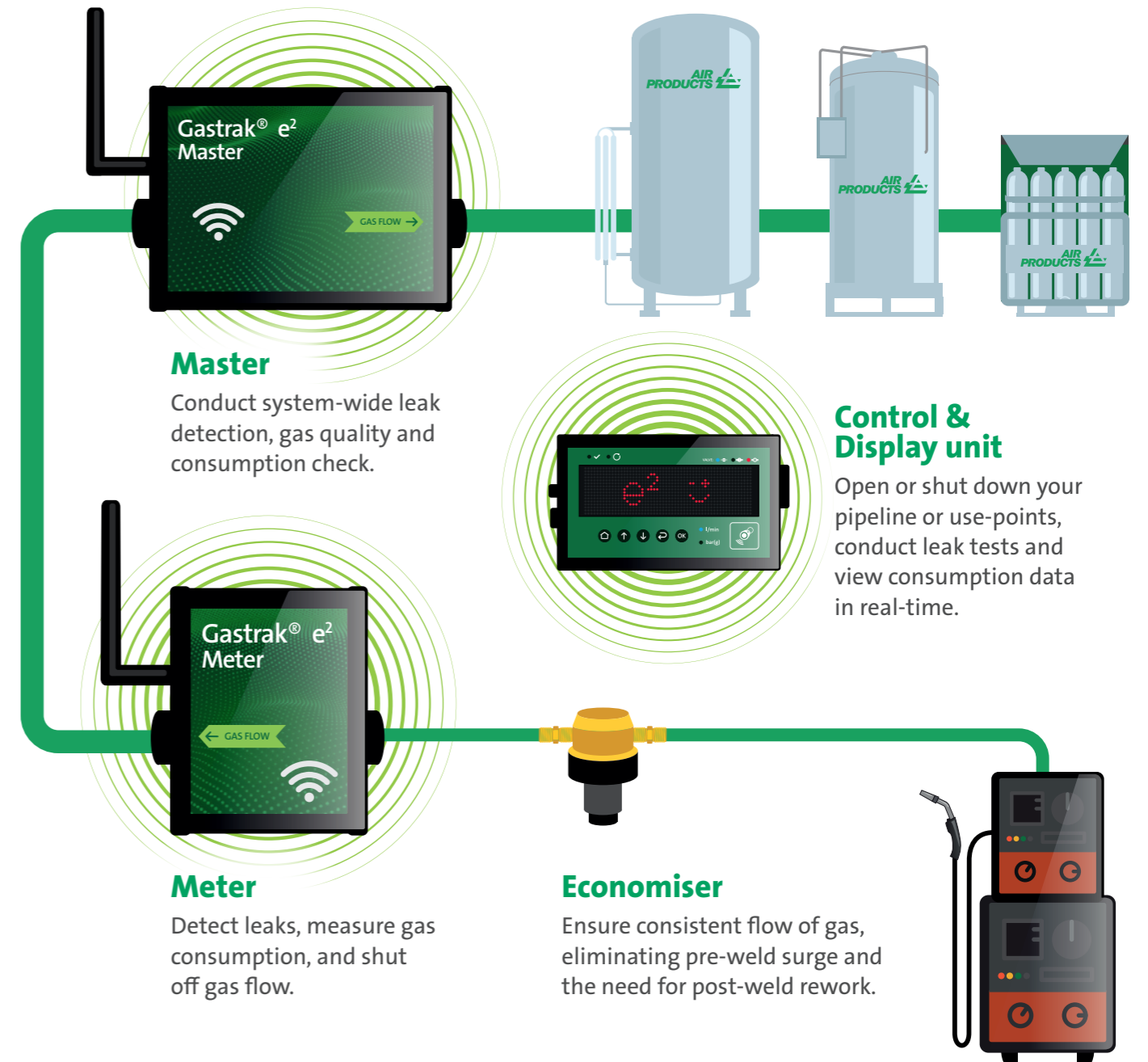
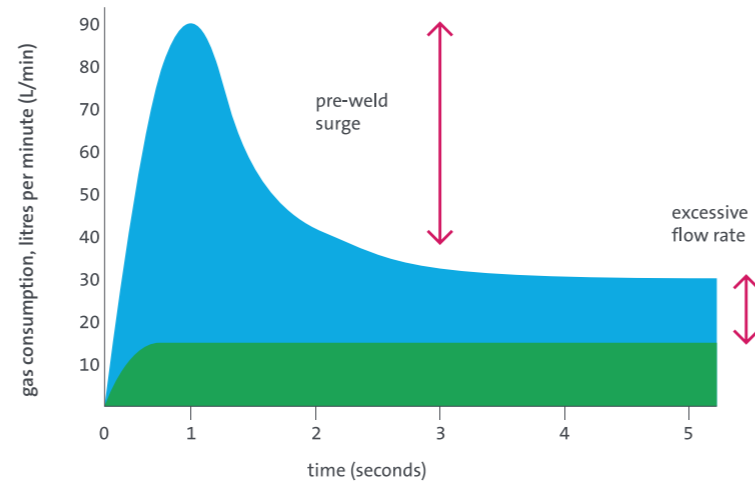
Gastrak[®] e² Service requires no capital outlay, so you benefit from reduced gas use and better quality welding immediately – saving money from the moment of installation.

Expertise

The Gastrak[®] e² Service is delivered by our Application Specialists who will:



Gas saving with Gastrak[®] Service



Master

Conduct system-wide leak detection, gas quality and consumption check.

Control & Display unit

Open or shut down your pipeline or use-points, conduct leak tests and view consumption data in real-time.

Meter

Detect leaks, measure gas consumption, and shut off gas flow.

Economiser

Ensure consistent flow of gas, eliminating pre-weld surge and the need for post-weld rework.

Reporting

View detailed data per pipeline installation and use-point. Access the portal from anywhere and choose a time-range and metric to analyse.

Gastrak[®] e² Service Portal

The Gastrak[®] e² Service Portal displays key welding information at every use-point:

- Valve status
- System active time
- Total gas consumption
- Last activity time
- Current flow
- Maximum flow





Scan to
find out more



Our people are
at the heart of
our Gastrak®
Service

Talk to our team about how you
too can get more from less gas.

Contact us now and ask our qualified Welding
Application Specialists for a FREE consultation:

United Kingdom

Air Products PLC
0800 389 0202
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airproducts.co.uk/gastrak

Ireland

Air Products Ireland Ltd.
1800 99 50 29
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