

Gas Detectors Lifecycle Service

more security – more availability – more future

The status today: Industrial gas detection today usually ends with the purchase of equipment. The current situation

Today, companies invest in high-quality gas detectors, but usually only receive:

- Delivery of the device
- Commissioning
- periodic calibration
- Repair in the event of a fault
- New purchase at the end of its service life

The actual life cycle of the product is hardly actively accompanied.

Typical challenges:

- unplanned sensor failures
- unplanned plant shutdowns
- lack of transparency over sensor lifetime
- high replacement investments
- increasing maintenance costs
- no digital condition monitoring
- hardly any take-back or reuse concepts

Conclusion: Most gas detectors today are managed reactively – not actively managed.

Our vision: We rethink gas detection.

Our goal

arteos SAFETY is developing gas detection into an intelligent lifecycle solution.

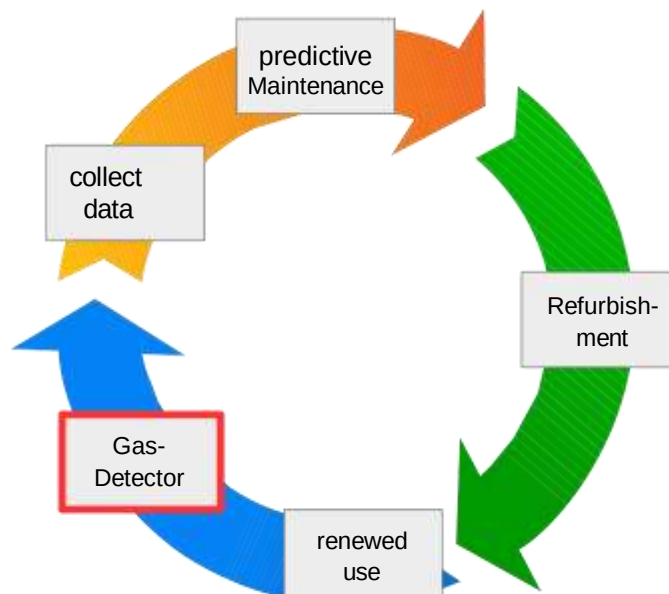
The focus is not on the product, but:

- maximum system availability
- plannable operating costs
- digital transparency
- sustainable use
- longer product life

Our Vision

From one-time product sales to intelligent safety lifecycle management.:

Gas detector → collect data → predictive maintenance → refurbishment → reuse



Service 1 “Sensor Exchange”

Plannable sensor replacement

- Reminder before the sensor module lifetime expires
- Preconfigured sensor module is shipped
- Return of the old sensor & credit note

Benefits:

- ✓ Low service costs
- ✓ No unplanned downtimes
- ✓ Maximum device availability

Service 2 “Buy Back”

Flexible use instead of capital commitment

- Take-back of the device
- Technical inspection
- Valuation & credit note

Benefits:

- ✓ Reduced risks
- ✓ Lower investments
- ✓ Sustainable use of resources

Service 3 “Digital Monitoring”

(from autumn 2026)

Gas detector connected to the IoT device SIS via Modbus

- SIS connected to our cloud
- Real-time data & alerting
- Information provided to the customer

Benefits:

- ✓ Complete transparency
- ✓ Quick response
- ✓ Remote monitoring

Service 4 “Predictive

Maintenance” (under development)

The next generation of maintenance for gas detectors

- Continuous data collection & evaluation
- Early error detection & trend analysis
- Maintenance as needed

Benefits:

- ✓ Fewer failures
- ✓ Reduced maintenance costs
- ✓ Increased device availability

Service 5 “Circular Process” (from 2027)

After the end of the assignment

- Take-back & technical inspection with evaluation
- Refurbishment, depending on the condition
- Remarketing & redeployment

Benefits:

- ✓ Maximum sustainability
- ✓ Reduced CO2 footprint
- ✓ Longer product life

Why arteos SAFETY?

More than a gas detector

With arteos SAFETY, you are not only investing in a high-quality measuring system, but also in a long-term safety strategy.

Your added value:

- ✓ **Industrial IoT:** intelligent networking of your gas detectors
- ✓ **Circular economy:** sustainable use instead of throwaway principle
- ✓ **Predictive maintenance:** Detecting failures before they occur
- ✓ **One point of contact:** from advice to service
- ✓ **Engineering expertise:** individual solutions for your application
- ✓ **Digital security solutions:** modern data and condition monitoring
- ✓ **Lifecycle instead of product sales:** long-term management of your investment
- ✓ **Maximum system availability:** fewer downtimes, higher operational reliability
- ✓ **Sustainable investment security:** predictable costs and extended product life
- ✓ **Sustainable concept with CO2 savings:** through reuse, repair & service

Rethinking safety: The future of industrial gas detection does not end with the purchase of a device, it starts there. With intelligent lifecycle services, digital networking, predictive maintenance and a consistent circular economy concept, arteos SAFETY turns a gas detector into a future-proof safety solution – economical, sustainable and digital.



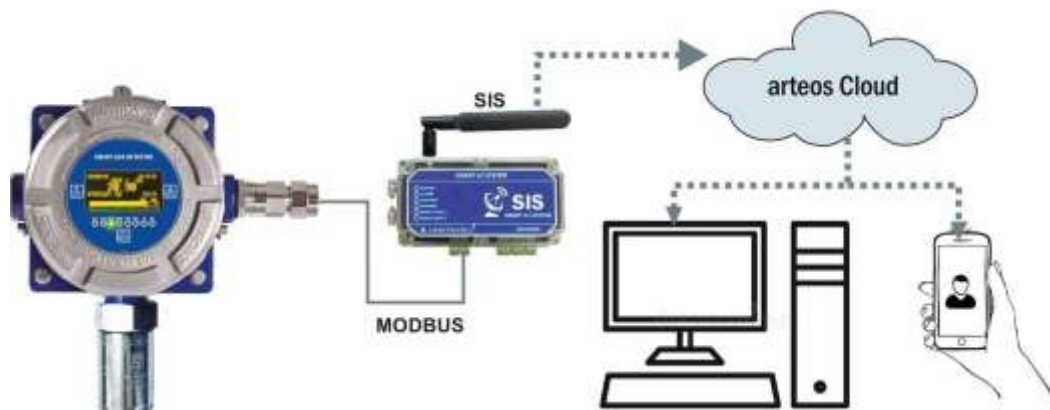
GT-2511-FLP



GT-2511-FLP-DB



IoT Device SIS



Basic structure for the lifecycle service

Implementation example of the lifecycle service concept

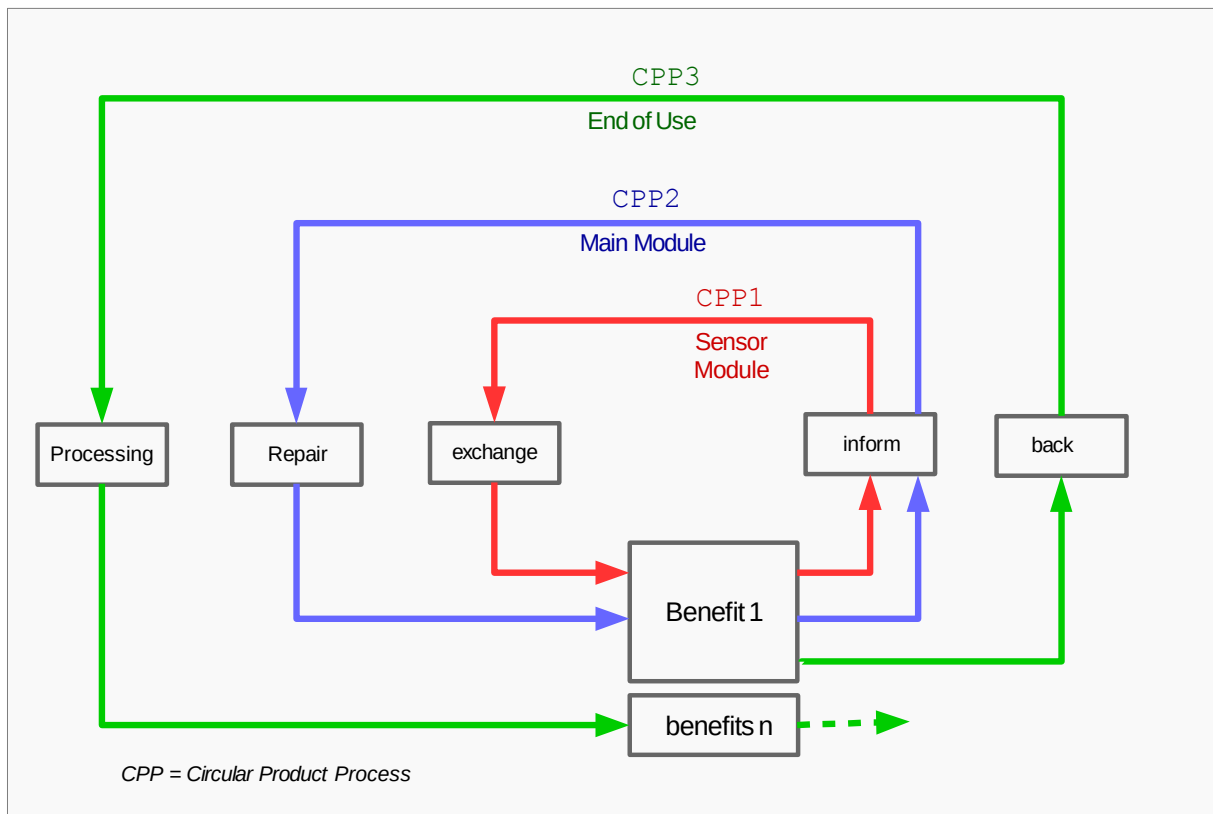


Fig.: The GT-2511-FLP Lifecycle Process

Legend for the implementation example of the lifecycle service concept

CPP1 "Sensor Exchange": Maximum availability without maintenance stress

The sensor is replaced exactly when its defined service life has been reached. arteos SAFETY monitors the entire lifecycle, informs you at an early stage and, if desired, supplies you with a new sensor module in good time. After the simple replacement, you send the previous module back to us – for uninterrupted and safe system operation.

CPP2 "Predictive Maintenance": Replace before a failure occurs

By continuously monitoring the device data, arteos SAFETY detects functional deviations or an imminent failure of the main module at an early stage. With a corresponding service contract, you will automatically receive a replacement device even before unplanned downtimes occur. You can then conveniently send the previous module back to us.

CPP3 "Buy Back": Invest sustainably, reduce costs, secure the future.

At the end of the product life cycle, we take back your gas detector and assess its technical condition. As part of our buy-back program, you will receive an attractive credit note that you can use directly for your next investment. In this way, you reduce your investment costs, modernize your security solution economically and at the same time make an active contribution to the circular economy – for more sustainability, resource conservation and long-term investment security.



arteos SAFETY is a division of

arteos GmbH

Seligenstädter Str. 91
D-63500 Seligenstadt, Germany
Tel.: +49 (0)61 82 / 640 34 - 0
Mobile: 0170 / 691 29 10
f.syed@arteos.com
www.arteos-safety.com