

Waste Water Solutions Update

Servomex 540 is Obsolete

The trusty Servomex 540 used on many enriched digester oxygen control systems has finally become obsolete. However, it is easily replaced by the Servomex 1800, 1900 or 2200 models.



Today the Servomex 1800 Analyser is available to replace most safe area 540 installations. For ease of integration Servomex recommends that for digester applications the 1800 is specified with the AFCD (Automatic Flow Control Device), providing flow control, a sample filter and a built in sample bypass that helps prevent damage to the measuring cell under fault conditions where the sample flow rate may exceed 1 liter / minute.

Most enriched digester applications include a cabinet with a freeze protection heater and a sample conditioning system with a pump, coalescing filter, liquid separator and calibration valves, plus analyzer outlet pipework that connects to a sample vent at atmospheric pressure. The Servomex 1800 will usually work with an existing 540 cabinet, though if it is time to replace it, a complete new system can also be provided.



Key Differences

For smooth replacement please note that the Servomex 1800 has the following differences to the 540.

1. The 1800 has an internal flow alarm option but does not include an integral flow meter as the 540 did. If the low flow alarm is not acceptable an external flow meter can be used, available from Servomex or another supplier.
2. Like the 540, the 1800 provides a 0-1 VDC and 4-20mA output, plus level and optional flow alarm relays. It does not have 0-10mV or 0-50mV outputs or a fault alarm - instead an instrument fault is indicated by jamming the mA output <4mA.
3. The 1800 has a smaller footprint than the 540 and is designed for wall mounting.

For hazardous area installations, multi point monitoring, or where digital communications are beneficial please refer to the information overleaf on the Servomex 1900 and 2200 oxygen analyzers.

Please consult Servomex for a review of your specific application.

Servomex 1800 Paramagnetic Oxygen Analyzer

A stable, cost effective industrial oxygen analyzer

- Non-depleting, fast response measuring cell
- Low maintenance and re-calibration requirements
- Rugged, secure NEMA 4X / IP65 cast housing
- Range of outputs to aid integration with other systems



Servomex 1900 Paramagnetic Oxygen Analyzer

A cost effective hazardous area approved variant of the Servomex 1800

- The same reliable measuring cell as the Servomex 1800
- The same easy installation, operation and calibration

Plus, intrinsically safe hazardous area design means:

- no need to purge
- fewer hot work certificates = simpler maintenance
- continuous use with flammable mixtures possible



Servomex 2200 Digital Paramagnetic Oxygen Analyzer

The latest high performance safe or hazardous area approved oxygen analyzer

- Exceptional measurement performance
- Digital communications
- Multi-drop facility: 6 transmitters to 1 control unit



Other Servomex analyzers for use in the waste water industry

4000



Emissions Monitoring

1440



Headspace CO₂ / O₂

2700



Combustion Control

5200



Portable O₂ / CO₂

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