TÜVRheinland®
Precisely Right.

CONFIRMATION

of Product Conformity (QAL1)

AMS designation:	AO2000-Magnos28 for O_2
Manufacturer:	ABB Automation GmbH Stierstädter Str. 5 60488 Frankfurt Germany
Test Laboratory:	TÜV Rheinland Energy GmbH

This is to certify that the AMS has been tested and certified according to the standards

EN 15267-1: 2009, EN 15267-2: 2009, EN 15267-3: 2007 and EN 14181: 2014

The AMS underwent independent expert testing and was accepted.
This confirmation is valid up to the publication of the certificate,
but no longer than 6 months from the date of issue
(this document contains 4 pages)

Expiry date: 19 December 2018

TÜV Rheinland Energy GmbH
Cologne, 20 June 2018

i. V. Dipl.-Ing. G. Baum

i. A. Dipl.-Ing. C. Röllig

www.umwelt-tuv.eu tre@umwelt-tuv.eu Phone. +49 221 806-5200	TÜV Rheinland Energy GmbH Am Grauen Stein 51105 Köln

Test institute accredited to EN ISO/IEC 17025:2005 by DAkkS (German Accreditation Body).
This accreditation is limited to the accreditation scope defined in the enclosure to the certificate D-PL-11120-02-00.

Test Report:	936/21236694/C dated 7 March 2018
Expiry date:	19 December 2018

Approved application
The tested AMS is suitable for use at combustion plants according to Directive 2010/75/EU, chapter III (13th BImSchV), at waste incineration plants according to Directive 2010/75/EU, chapter IV (17th BImSchV), the 27th and 30th BImSchV and TA Luft. The measured ranges have been selected so as to ensure as broad a field of application as possible.

The suitability of the AMS for this application was assessed on the basis of a laboratory test and a three-months field test at a municipal waste incineration plant.

The AMS is approved for an ambient temperature range of +5 °C to +40 °C.

The notification of suitability of the AMS, performance testing and the uncertainty calculation have been effected on the basis of the regulations applicable at the time of testing. As changes in legal provisions are possible, any potential user should ensure that this AMS is suitable for monitoring the oxygen concentrations relevant to the application.

Any potential user should ensure, in consultation with the manufacturer, that this AMS is suitable for the installation at which it will be installed.

Basis of the confirmation
This confirmation is based on:

- Test report 936/21236694/C dated 7 March 2018 issued by TÜV Rheinland Energy GmbH
- The ongoing surveillance of the product and the manufacturing process
- Expert testing and approval by an independent body

AO2000-Magnos for O_2

Manufacturer:
ABB Automation GmbH, Frankfurt am Main

Field of application:
For plants requiring official approval and for plants according to the 27th BImSchV

Measuring ranges during performance testing:

Component	Certification range	Supplementary range	Unit
O_2	0–25	0–10	vol.-%

Software versions:
AMC board: 3.8.6
Syscon: 5.1.16

Restrictions:
None

Notes:
1. The maintenance interval is four weeks.
2. It is possible to use the analyser in its versions AO2020 (19" housing for rack mounting) and AO2040 (housing for wall mounting).

Test Report:
TÜV Rheinland Energy GmbH, Cologne
Report no.: 936/21236694/C dated 7 March 2018

Tested product
This certificate applies to automated measurement systems conforming to the following description:

The AMS is an extractive AMS and comprises the following parts:

- AO2000-Magnos28 analyser
- Heated probe incl. controller, ABB PFE 3 or PFE2
- Heated sample line (180 °C), (max. 60 m) incl. controller, inner liner made of Teflon
- ABB SCC-F sample pump
- ABB SCC-C sample gas cooler
- Software versions: AMC board: 3.8.6, Syscon: 5.1.16

The Magnos28 analyser is an analyser module integrated in a universal AdvanceOptima AO2000 housing. This housing accommodates the display and control unit, the evaluation unit, the analyser module and the power supply unit. Analogue outputs and data interfaces are also located here.

The housing is available in two different versions.

The AO2020 housing is the 19” version intended for rack mounting.

The AO2040 housing is intended for wall mounting and has a similar size.

Differences between the two versions are limited to the housing. All other components are identical.