



UK Declaration of Conformity

The Rotative Measuring System **ADV100 with Functional Safety and "TR-Explosion Protection Enclosure"**

Type: ADV100
Order-No.: ADV100*_******

have been developed, designed and manufactured in accordance with the UK statutory instruments and their amendments:

| | |
|--|---------------------------|
| The Electromagnetic Compatibility Regulations 2016 | S.I. 2016 No. 1091 |
| The Supply of Machinery (Safety) Regulations 2008 | S.I. 2008 No. 1597 |
| Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 | S.I. 2016 No. 1107 |
| The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 | S.I. 2012 No. 3032 |

under the sole responsibility of the manufacturer:

TR Electronic GmbH
Eglishalde 6
D - 78647 Trossingen
Tel.: +49 7425/228-0
Fax: +49 7425/228-33
Germany

Name and address of authorised representative:

TR-Electronic Ltd.
4 William House
Old St. Michaels Drive
GB - Braintree Essex CM7 2AA
Tel.: +44 1 371 876 187
Fax: +44 1 371 876 287



The following designated standards were applied:

| | |
|--|--|
| EN 61000-6-2:2005/AC:2005 with increased test standards: DIN EN 61326-3-1:2018 | Generic standards - Electromagnetic compatibility (EMC) Immunity (industrial environment) |
| EN 61000-6-3:2007/A1:2011 | Generic standards - Electromagnetic compatibility (EMC) Emission (residential environment) |
| EN 61800-5-2:2007 | Adjustable speed electrical power drive systems Safety requirements - Functional |
| EN ISO 13849-1:2023 | Safety of machinery - Safety-related parts of control systems General principles for design |
| EN 60204-1:2018 (in extracts) | Safety of machinery - Electrical equipment of machines General requirements |
| EN IEC 62061:2021 | Safety of machinery - Functional safety of safety-related control systems |
| EN ISO 20607:2019 | Safety of machinery - Instruction handbook - General drafting principles |
| EN IEC 60079-0:2018 | Explosive atmospheres Equipment - General requirements |
| EN 60079-1:2014 | Explosive atmospheres Equipment protection by flameproof enclosures "d" |
| EN 60079-31:2014 | Explosive atmospheres Equipment dust ignition protection by enclosure "t" |
| EN IEC 63000:2018 | Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances |

Other applied standards:

| | |
|----------------------------|---|
| DIN EN 61508 Part 1-7:2011 | Functional safety of electrical/electronic/programmable electronic safety-related systems |
| DIN EN 60529:2014 | Degrees of protection provided by enclosures (IP code) |

The products are marked additionally with the following characteristics on the name plate:

| |
|--|
|  II 2G Ex db IIC T6...T4 Gb;  II 2D Ex tb IIIC T80 °C...T130 °C Db -40 °C ≤ T _a ≤ +40 ... +75 °C |
|--|

The Type Examination Test was carried out by:

NB0637, IBExU Institut für Sicherheitstechnik GmbH,
Fuchsmühlenweg 7,
09599 Freiberg, GERMANY
No. of the EU type-examination certificate: IBExU 17 ATEX 1042 X | 1

The type examination and certification according to the machinery regulations as Logic Unit For Safety Functions was carried out by the UK Conformity Assessment Body:

NB2571, TUV Rheinland UK Ltd.,
Friars Gate (Third Floor),
1011 Stratford Road, Shirley, Solihull B90 4BN, United Kingdom
No. of the type-examination certificate: 01/205U/5518.xx/xx (internal 75 series)

Authorized to compile the technical file:

TR Electronic GmbH, Eglisshalde 6, 78647 Trossingen, Germany

Trossingen, 04/23/2025



Mr. Klaus Tessari, CEO