

EC- / EU-Declaration of Conformity

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

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

was developed, designed and manufactured to comply with the EU-Directives

Electromagnetic Compatibility (EMC)	2014/30/EU	(L 96/79)
Machinery Directive	2006/42/EC	(L 157/24)
Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)	2014/34/EU	(L 96/309)
Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)	2011/65/EU	(L 174/88)

under the sole responsibility of

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



The following harmonized 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 D -40 °C ≤ T _a ≤ +40 ... +75 °C

The EU type examination according to the ATEX Directive for the Explosion Protection Enclosure was carried out by the notified body:

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 EU type examination and certification according to the Machinery Directive as Logic Unit For Safety Functions was carried out by the notified body:

NB0035, TÜV Rheinland Industrie Service GmbH,
Alboinstr. 56,
12103 Berlin, GERMANY
No. of the EU type-examination certificate: 01/205/5518.xx/xx (internal series 75)

Authorized to compile the technical file:

TR Electronic GmbH, Eglisshalde 6, 78647 Trossingen, Germany

Trossingen, 04/23/2025



Mr. Klaus Tessari, CEO