



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

EX COMPONENT CERTIFICATE

Certificate No.: IECEx EUT 18.0030U Issue No: 0 Certificate history:
Issue No. 0 (2018-11-19)

Status: **Current** Page 1 of 3

Date of Issue: **2018-11-19**

Applicant: **DVG Automation S.p.A.**
Via G. Rossetti, 2 – 29016 Cortemaggiore (PC)
Italy

Ex Component: **Pressure transmitter, Series: ATRD**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof "Ex db" and Dust tight "Ex tb"**

Marking:
Ex db IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Dionisio Bucchieri

Position:

Head of IECEx CB

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Eurofins Product Testing Italy S.r.l.
Via Cuornè,
n.21 - 10156 Torino
Italy



Product Testing



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Manufacturer: **DVG Automation S.p.A.**
Via G. Rossetti, 2 – 29016 Cortemaggiore (PC)
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex Component covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The Ex Component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0
IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

[IT/EUT/ExTR18.0033/00](#)

Quality Assessment Report:

[IT/EUT/QAR14.0003/03](#)



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Schedule

Ex Component(s) covered by this certificate is described below:

The pressure transmitters, series ATRD, are optional components of the already certified equipment "SDCU-20" (Smart Diagnostic Control Unit) and "ITVC" (Intelligent Total Valve Controller).

They are used to measure the pressure of oil or air inside the actuator cylinder on which the SDCU-20 or ITVC are installed.

The components have to be screwed into a cable entry of ITVC or SDCU-20 enclosure and they are powered by the ITVC or SDCU-20 electronics.

The component body is made of stainless steel AISI 316.

Thread type: M27x1.5 (for the connection to "SDCU-20" or "ITVC")

Thread type: 1/8" NPT (connection for pressure measurement of the process fluid).

The component is suitable for processes classified as safe zone.

Model	Pressure range
ATRD01XA001	From 0 to 16 bar
ATRD01XA003	From 0 to 250 bar
ATRD01XA004	From 0 to 400 bar

Supply voltage : 12 or 24 Vdc

Output current: from 4 to 20 mA

Degree of protection: IP66 / IP68 (1m 1 hour)

SCHEDULE OF LIMITATIONS:

- The pressure transmitters, series ATRD, have to be used only with the already certified equipment "SDCU-20" (Smart Diagnostic Control Unit) and "ITVC" (Intelligent Total Valve Controller).
- The permitted service temperature is included between -40°C and +97°C; when used in an ambient with a temperature not greater than +85°C, the limit for the maximum service temperature is respected.
- When supplied at 24V 22mA (with a resistive load of 250Ω) and rated pressure, the maximum increase of temperature on the external surface is 3 K.
- Thermal tests and evaluations refer to a maximum internal temperature of the associated enclosure and/or ambient/process of 85°C.
- During installation, the user has to ensure that there is electrical continuity between the equipment and the enclosure that has to be correctly grounded.
- Flameproof joints cannot be repaired.
- The component is suitable for processes classified as safe zone.
- The component has been tested according to clause 15.2.3 of IEC 60079-1 at a pressure of 44 bar, therefore it can be installed in an enclosure with a Pref value of 11 bar or lower.