



Translation

EC-Type Examination Certificate

- Directive 94/9/EC -

Equipment and protective systems intended for use
in potentially explosive atmospheres -

BVS 09 ATEX E 022

- (4) **Equipment:** 475 Field Communicator
- (5) **Manufacturer:** R. STAHL HMI Systems GmbH
- (6) **Address:** 50767 Cologne, Germany
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report BVS PP 09.2027 EG
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2006 General Requirements
EN 60079-11:2007 Intrinsic Safety 'i'
EN 60079-26:2004 Equipment Group II Category 1G
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

II 2 G (1 GD) Ex ia IIC T4

DEKRA EXAM GmbH

Bochum, dated 11th March 2009

signed: Simanski

signed: Dr. Eickhoff

Certification body

Special services unit

(13)

Appendix to

(14)

EC-Type Examination Certificate

BVS 09 ATEX E 022

(15)

15.1 Subject and type

475 Field Communicator

15.2 Description

The 475 Field Communicator is a portable and battery-operated handheld device which is used for measurement at microprocessor-controlled equipment and for data transfer to field devices in processes.

The electric components are mounted in a plastic enclosure (surface resistivity $\leq 10^9 \Omega$). The intrinsically safe circuits of the field circuits are connected by plug connectors at the top of the enclosure (F for fieldbus applications and H for HART-applications). These circuits may also lead into areas where apparatus of categories 1G or 1D may be required.

Power to the device is provided by a fully potted battery. This battery is charged (outside the potentially explosive atmosphere) by means of a specific charger (not subject of this test); for this charging process, another plug connector is located at the side of the enclosure.

15.3 Parameters

15.3.1	Battery pack				
	Nominal voltage		DC	7.2 V	
	Capacity			1950 mAh	
15.3.2	Connection F				
	Voltage	Uo	DC	1.9 V	
	Current	Io		.32 µA	
15.3.2.1	For connecting an IS-fieldbus circuit				
	Voltage	Ui	DC	30 V	
	Current	Ii		380 mA	
	Power	Pi		1.3 W	
	Effective internal capacity	Ci		negligible	
	Effective internal inductivity	Li		negligible	
15.3.2.2	For connecting a circuit according to FISCO-model				
	effective internal capacity	Ci		negligible	
	effective internal inductivity	Li		negligible	

At circuits of type of ignition protection Ex ia IIC

Voltage	Ui	DC	17.5 V
Current	Ii		215 mA
Power	Pi		1.9 W

At circuits of type of ignition protection Ex ia IIB

Voltage	Ui	DC	17.5 V
Current	Ii		380 mA
Power	Pi		5.3 W

15.3.3 Connection H

Voltage	Uo	DC	1.9 V
Current	Io		32 µA

For connecting an IS-circuit

Voltage	Ui	DC	30 V
Current	Ii		200 mA
Power	Pi		1 W
effective internal capacity	Ci		negligible
effective internal inductivity	Li		negligible

15.3.4 Ambient temperature range

Ta -10 °C to +50 °C

(16) Test and assessment report

BVS PP 09.2027 EG, as of 11.03.2009

(17) Special conditions for safe use

None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 04.12.2012
BVS-Schu/Ar E 2095/12



Certification body



Special services unit



Translation

1st supplement to

(Supplement in compliance with Annex III clause 6 of Directive 94/9/EC)

EC-Type Examination Certificate

BVS 09 ATEX E 022

Equipment: 475 Field Communicator
Manufacturer: R. STAHL HMI Systems GmbH
Address: 50767 Cologne, Germany

Description

The Field Communicator may also be manufactured according to the test documents provided in the pertinent test and assessment report.

The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2006	General Requirements
EN 60079-11:2007	Intrinsic Safety 'i'
EN 60079-26:2004	Equipment Group II Category 1G
EN 60079-27:2008	Fieldbus-Systems FISCO

The marking of the equipment shall include the following:

II 2 G (1 GD) Ex ia IIC T4

Test and assessment report

BVS PP 09.2027 EG, as of 05.06.2009

DEKRA EXAM GmbH

Bochum, dated 5th June 2009

signed: Simasni

Certification body

signed: Dr. Eickhoff

Special services unit

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 04.12.2012
BVS-Schu/Ar E 2095/12

Certification body

Special services unit



2nd Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the EC-Type Examination Certificate BVS 09 ATEX E 022

Equipment: 475 Field Communicator
Manufacturer: R. STAHL HMI Systems GmbH
Address: 50767 Köln, Germany

Description

The Field Communicator can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006	General requirements
EN 60079-11:2007	Intrinsic safety 'i'
EN 60079-26:2004	Equipment Group II Category IG
EN 60079-27:2008	Fieldbus concept FISCO

The marking of the equipment shall include the following:

 **II 2 G (1 GD) Ex ia IIC T4**

Test and assessment report

BVS PP 09.2027 EG as of 10.05.2010

DEKRA EXAM GmbH
Bochum, dated 10. May 2010

Signed: Simanski
Certification body

Signed: Dr. Eickhoff
Special services unit

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 10.05.2010
BVS-Schu/Her A 20090862

DEKRA EXAM GmbH



Certification body



Special services unit

Translation

(1) 3. Supplement to the EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use
in potentially explosive atmospheres - Directive 94/9/EC
Supplement accordant with Annex III number 6
- (3) No. of EC-Type Examination Certificate: **BVS 09 ATEX E 022**
- (4) Equipment: **475 Field Communicator**
- (5) Manufacturer: **R. STAHL HMI Systems GmbH**
- (6) Address: **Im Gewerbegebiet Pesch 14, 50767 Köln, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in
the appendix to this supplement.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of
the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this
equipment has been found to comply with the Essential Health and Safety Requirements relating to
the design and construction of equipment and protective systems intended for use in potentially
explosive atmospheres, given in Annex II to the Directive. The examination and test results are
recorded in the test and assessment report BVS PP 09.2027 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2012 General requirements**
EN 60079-11:2012 Intrinsic safety "i"
EN 60079-26:2007 Equipment with equipment protection level (EPL) Ga
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special
conditions for safe use specified in the appendix to this certificate.
- (11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and
tests of the specified equipment in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this
equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 **II 2G (1GD) Ex ia [ia Ga] [ia Da IIIC] IIC T4 Gb**

DEKRA EXAM GmbH
Bochum, dated 9th April 2013

Signed: Dr. Eickhoff

Certification body

Signed: Dr. Wittler

Special services unit

(13) Appendix to

(14) **3. Supplement to the EC-Type Examination Certificate
BVS 09 ATEX E 022**

(15) 15.1 Subject and type

475 Field Communicator

15.2 Description

The 475 Field Communicator can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

The equipment was assessed in accordance with the new standards.

15.3 Parameters

Not changed

(16) Test and assessment report

BVS PP 09.2027 EG as of 9th April 2013

(17) Special conditions for safe use

None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 9th April 2013
BVS-Le/Ma A 20130192



Certification body



Special services unit

Translation

(1) 4th Supplement to the EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use
in potentially explosive atmospheres - Directive 94/9/EC
Supplement accordant with Annex III number 6
- (3) No. of EC-Type Examination Certificate: **BVS 09 ATEX E 022**
- (4) Equipment: **475 Field Communicator**
- (5) Manufacturer: **R. STAHL HMI Systems GmbH**
- (6) Address: **Im Gewerbegebiet Pesch 14, 50767 Köln, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in
the appendix to this supplement.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of
the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this
equipment has been found to comply with the Essential Health and Safety Requirements relating to
the design and construction of equipment and protective systems intended for use in potentially
explosive atmospheres, given in Annex II to the Directive. The examination and test results are
recorded in the Test and Assessment Report BVS PP 09.2027 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2012 + A11:2013 General requirements**
EN 60079-11:2012 Intrinsic safety "i"
EN 60079-26:2007 Equipment with equipment protection level (EPL) Ga
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special
conditions for safe use specified in the appendix to this certificate.
- (11) This supplement to the EC-Type Examination Certificate relates only to the design, examination and
tests of the specified equipment in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this
equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 **II 2G (1GD) Ex ia [ia Ga] [ia Da IIC] IIC T4 Gb**

DEKRA EXAM GmbH
Bochum, dated 2015-01-21

Signed: Dr. Eickhoff

Certification body

Signed: Dr. Wittler

Special services unit

- (13) Appendix to
- (14) **4th Supplement to the EC-Type Examination Certificate
BVS 09 ATEX E 022**
- (15) 15.1 Subject and type
475 Field Communicator
- 15.2 Description
The 475 Field Communicator can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report. An alternative memory card can be used.
- 15.3 Parameters
Not changed
- (16) Test and Assessment Report
BVS PP 09.2027 EG as of 2015-01-21
- (17) Special conditions for safe use
None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 2015-01-21
BVS-Schu/Ma A 20150024



Certification body



Special services unit