IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.:	**IECEx DEK 17.0044X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 4	Issue 3 (2024-09-09) Issue 2 (2022-08-01) Issue 1 (2019-07-01) Issue 0 (2017-11-17)
Date of Issue:	2024-10-04		
Applicant:	**R. STAHL Schaltgeräte GmbH** Am Bahnhof 30 74638 Waldenburg **Germany**		
Equipment:	**Universal Module HART (UMH), Type 9469/35-08-1***		
Optional accessory:			
Type of Protection:	**Ex ec, Ex ia**		
Marking:	For type 9469/35-08-1f: (f = 0, 1, 2) Ex ec ic [ia Ga] IIC T4 Gc		

Approved for issue on behalf of the IECEx Certification Body:	**R. Schuller**
Position:	**Certification Manager**
Signature: (for printed version)	
Date: (for printed version)	2024-10-04

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Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands

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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Manufacturing locations: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

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 products 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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

NL/DEK/ExTR17.0055/04

Quality Assessment Report:

DE/BVS/QAR10.0002/20

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Universal Module HART (UMH) Type 9469/35-08-1*, for operation in the Remote I/O Systems IS1 and IS1+. The modules are connected to the system via the BusRail.

The Universal Module HART (UMH) Type 9469/35-08-1* provides 8 non-intrinsically safe input and/or output channels (configurable) for connection and supply of up to 8 0/4 to 20 mA transmitters or actuators or up to 4 valves or three-wire indicators PNP in any mixture of input and output channels. Channels 4 to 7 can also be used for 3-wire and 4-wire transmitters and actuators.
The UMH Type 9469/35-08-1* is equipped with a “Plant Stop” input, to shut down all outputs simultaneously.

The non-intrinsically safe input/output circuits are infallibly galvanically isolated from the IS1 and IS1+ bus supply and data circuits up to 100 V.

The UMH Type 9469/35-08-1* is in type of protection Ex ec ic and may be installed in an explosive gas atmosphere suitable for EPL Gc.

The enclosure of the module provides a degree of protection IP30 according to IEC 60529.

The complete Universal Module HART (UMH) Type 9469/35-08-1* may be disconnected or connected to the IS1 or IS1+ BusRail while in operation in hazardous area. However, it is not allowed to (dis)connect conductors at, or the terminal blocks of X0 and X1.

For electrical and thermal data refer to Annex 1.

SPECIFIC CONDITIONS OF USE: YES as shown below:
When installed in an explosive gas atmosphere, the Universal Module HART (UMH) Type 9469/35-08-1* shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1 and only be placed in an enclosure that meets the requirements of an appropriate, recognized type of protection in accordance with IEC 60079-0. The installation shall provide a degree of protection not less than IP54.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Barrier isolation voltage from 60V to 100V.

Annex:

228843900-7-Annex1 to ExTR17.0055.04.pdf

Type designation

Universal Modul HART	9469 /	3	5	-	0	8	-	1	*
	z	a	b		c	d		e	f
Version:									
IS1+	3								
Categorie:									
Categorie 2 – Input/Output Ex ec	5								
Number of channels:									
8 channels	8								
Type:									
Standard	1								
Options:									
Without channel indication	0								
With channel indication	1								
With channel indication and “Plant Stop”	2								

Electrical data

Circuit connecting to the IS1 or IS1+ System:

Power supply (input); Plug to BusRail V101/ Pin 7, 8, 9, 10 (+), Pin 27, 28, 29, 30 (–):
in type of protection intrinsic safety Ex ia IIC, with the following maximum values:
U_i = 26.2 V.

Electronic switch control (input); Plug to BusRail V101/ Pin: 18, 19:
in type of protection intrinsic safety Ex ia IIC, with the following maximum values:
U_o = 26.2 V; I_o = 3.1 mA; P_o = 20.4 mW.

Address- and Databus (communication); Plug to BusRail V101/ Pin: 4 (Bus Red.); 5 (Bus Prim.); 14, 15, 16, 24 (Bank 1-4):
in type of protection intrinsic safety Ex ia IIC, only for connection to the internal Address- and Databus of the IS1/IS1+ System with the following maximum values:
U_o = 6.6 V; I_o = 102 mA; P_o = 168 mW
U_i = 6.6 V; C_i = 0 nF; L_i = 0 mH

Non-intrinsically safe field circuits:

Non intrinsically safe field circuits at connections X0 and X1, in type of protection increased safety Ex ec, U_m = 60 V (@ max.100A), where all circuits at X0 and X1 reference to a common return (GND):

Connections at X1: Terminals 1 to 8 for channels 0 to 3; (Signal, GND), 2-wire input or output 0/4 – 20 mA. Terminals 9 to 24 for channels 4 to 7; (+24 V, Signal OUT, Signal IN, GND), 2-wire input or output 0/4 – 20 mA, 4-wire input 0/4 – 20 mA, 3-wire initiator PNP input, 2-wire digital output.

Power output for channels 4 to 7 (+24V, Signal OUT, Signal IN, GND), with the following nominal values:
$U_A = U_H$ – 0.7 V, with voltage range of U_H: 18 V to 32 V dc
I_A = 30 mA to 0.5 A, up to the maximum total current permissible for T_a
Signal OUT = 15.5 V (at 20 mA), 0/4 – 20 mA at 2-wire or Signal OUT = 32 V, 0/4 – 20 mA at 4-wire, Signal IN = 32 V (at 4-wire only)

Connections at X0 (Ext. Supply 1(+), 2(-); Plant Stop 3(+), 4(-);
Ext. Supply: U_H = 24 V dc (18 V to 32 V dc)
I_H = 2 A dc
Plant Stop: $U_{AUS} = U_H$ (Voltage range 18 V to 32 V dc)
I_{AUS} = 1.5 mA dc

Thermal data

Ambient temperature range: -40 °C to +75 °C.