

# CERTIFICATE

## (1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 17ATEX0099X** Issue Number: **4**

(4) Product: **Universal Module HART (UMH), Type 9469/35-08-1\***

(5) Manufacturer: **R. STAHL Schaltgeräte GmbH**

(6) Address: **Am Bahnhof 30, 74638 Waldenburg, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR17.0055/04.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0 : 2018  
IEC 60079-11 : 2023**

**EN 60079-7 : 2015 + A1 : 2018**

**EN 60079-11 : 2012**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



**II 3 (1) G**

**Ex ec ic [Ia Ga] IIC T4 Gc**

*Type 9469/35-08-1f  
f = 0, 1, 2*

Date of certification: 4 October 2024

DEKRA Certification B.V.

R. Schuller  
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 17ATEX0099X**

Issue No. 4

(15) **Description**

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 EN 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.

**Electrical data / Thermal data**

Refer to Annex 1 to NL/DEK/17.0055/04.

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/DEK/ExTR17.0055/04.

(17) **Specific conditions of use**

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 EN 60664-1 and only be placed in an enclosure that meets the requirements of an appropriate, recognized type of protection in accordance with EN IEC 60079-0. The installation shall provide a degree of protection not less than IP54.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR17.0055/04.

## Type designation

U n i v e r s a l M o d u l H A R T	9469	/	3	5	-	0	8	-	1	*
	z		a	b		c	d		e	f
Version:										
IS1+	3									
Category:										
Category 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.