



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 BVS 16.0075X**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2018-11-11)

Issue 0 (2016-11-30)

Date of Issue: 2026-01-27

Applicant: **WIK A Alexander Wiegand SE & Co. KG**
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany

Equipment: **Field Indicator and Field Transmitter type DIH5*-I/TIF5*-I/TIF11-I/T**.E**

Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking:	Type	Marking
	DIH5*-I	Ex ia IIC T4/T5/T6 Gb Ex ia IIIC T135°C Db Ex ib IIIC T135°C Db
	TIF5x-I, T**.E	Ex ia IIC T4/T5/T6 Gb Ex ia [ia Ga] IIC T4/T5/T6 Gb Ex ia IIIC T135°C Db Ex ib IIIC T135°C Db
	TIF11-I	Ex ia IIC T4/T5/T6 Gb Ex ib IIC T4/T5/T6 Gb Ex ia [ia Ga] IIC T4/T5/T6 Gb Ex ia IIIC T135°C Db Ex ib IIIC T135°C Db Ex ia [ia Da] IIIC T135°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Deniz Pezzutto

Position:

Certification Manager

Signature:
(for printed version)

2026-01-27

Date:
(for printed version)

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Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **WIKA Alexander Wiegand SE & Co. KG**
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany

Manufacturing
locations:

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg
Germany

WIKA Instruments India Pvt. Ltd.
High Cliff Industrial Estate, Village
Kesnand
Wagholi
Pune 412207
India

WIKA Instrumentation (Suzhou) Co., Ltd.
81. Ta Yuan Road
SND Suzhou
215011
China

See following pages for more locations

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

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:

[DE/BVS/ExTR16.0081/01](#)

Quality Assessment Report:

[DE/BVS/QAR07.0010/21](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and type

See Annex

Description

See Annex

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

1 Field Indicator types DIH5*-I and Field Transmitter types TIF5*-I / TIF11-I/T**.E

1.1 Installation in areas requiring EPL Gb equipment:

- Electronic assemblies of Field Indicator types DIH5*-I and Field Transmitter types TIF5*-I / TIF11-I and T**.E shall be mounted in an enclosure, suitable for installation in EPL Gb area respectively, the enclosure shall provide as a minimum degree of protection IP20 according to IEC 60529. Electrostatic charge effects should be excluded.

During the installation internal wiring, clearances, creepage distances and separations have to be considered according to IEC 60079-11.

1.2 Installation in areas requiring EPL Db equipment:

- Electronic assemblies of Field Indicator types DIH5*-I and the Field Transmitter types TIF5*-I / TIF11-I and T**.E shall be mounted inside an enclosure, suitable for installation in EPL Db area, providing a minimum degree of protection IP5x (Group IIIB application) IP6x (Group IIIC application) according to IEC 60079-0, Ed. 7.

During the installation internal wiring, clearances, creepage distances and separations have to be considered according to IEC 60079-11.

2 Field Transmitter types TIF11-I and T**.E:

All special conditions for safe use of the build in IS transmitters which are not covered by this certification must be stated within the manufacturer's instructions by WIKA.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Details of change (applicable only when revising an existing ExTR package):

- Update of standard 60079-0 and 60079-11
- change in labeling
- model T** E is added
- Circuit changes in the DIH-5X model



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Additional manufacturing locations:

WIK A Polska spółka z o. o. SGF sp. k.
Ul. Kawka 6
87-800 Włocławek
Poland

WIK A SAUDI ARABIA LLC
85th street, cross128,
Dammam 2nd Industrial City,
7198 3182
Dammam 34332
Saudi Arabia

Annex:

[BVS_16_0075X_Wika_Annex_Issue2_1.pdf](#)



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Subject and type

Field indicator types DIH5*-I and field transmitter types TIF**-I and T**.E

The devices are build in the following variants:

Field indicator type DIH50-I consisting of

enclosure type 5/6000 or SAEEX-*-(PI-Housing) with
display module type DIH50-B
and adapter assembly type DIH50-NT

Field indicator type DIH52-I consisting of

enclosure type 5/6000 or SAEEX-*-(PI-Housing) with
display module type DIH52-B
and adapter assembly type DIH52-NT

Field transmitter type TIF50-I consisting of

enclosure type 5/6000 or SAEEX-*-(PI-Housing) with
one separately certified WIKA intrinsically safe transmitter T38, T15 or T16
and display module type DIH50-B
and adapter assembly type DIH50-NT

Field transmitter type TIF52-I consisting of

enclosure type 5/6000 or SAEEX-*-(PI-Housing) with
one separately certified WIKA intrinsically safe transmitter T38, T15 or T16
and display module type DIH52-B
and adapter assembly type DIH52-NT

Field transmitter type T**.E consisting of

separately certified enclosure with
one separately certified WIKA intrinsically safe transmitter T38, T15 or T16 and optional
display module type DIH5x-B with adapter assembly type DIH5x-NT or TND-display

Field transmitter type TIF11-I consisting of

separately certified enclosure without display and with
one separately certified WIKA intrinsically safe transmitter T38, T15 or T16



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Description of the devices

Field Indicator type DIH5*-I for 4 - 20 mA current loops

The Field Indicator type DIH5*-I comprises of a display module type DIH5*-B and an adapter assembly type DIH5*-NT, mounted in a metal enclosure type 5/6000 or type PI-H.

The connection of the field indicator to an external intrinsically safe 2-wire 4...20 mA supply- and signal circuit is made via terminals on the adapter module.

The field indicator is suitable for use in areas requiring EPL Gb or Db.

Field Transmitter type TIF5*-I

The Field Transmitter type TIF5*-I comprises of a separately certified WIKA intrinsically safe transmitter T38, T15 or T16, a display module type DIH5*-B and an adapter module type DIH5*-NT, mounted in a metal enclosure type 5/6000 or SAEEX-*-(PI-Housing).

The connection of the field transmitter to the external intrinsically safe 2-wire 4...20 mA supply- and signal circuit is made via terminals on the adapter module.

The connection of the sensor circuit is made with the terminals of the transmitter module.

Field Transmitter type T**-E

The Field Transmitter type T**-E comprises of a separately certified WIKA intrinsically safe transmitter T38, T15 or T16. The connection of the field transmitter to the external intrinsically safe 2-wire 4...20 mA supply- and signal circuit is made via terminals on the adapter module. The connection of the sensor circuit is made with the terminals of the transmitter module.

Models without display are built in different certified enclosures.

Models with display uses a display module type DIH5*-B with an adapter module type DIH5*-NT or a TND-display and they are mounted in a metal enclosure type 5/6000 or SAEEX-*-(PI-Housing).

The field transmitter are suitable for use in areas requiring EPL Gb or Db.

Field Transmitter type TIF11-I

The Field Transmitter type TIF11-I comprises of a separately certified WIKA intrinsically safe transmitter T38, T15 or T16 which is mounted in an enclosure which is separately certified.

The connection to external intrinsically safe 2-wire 4...20 mA supply- and signal circuit and sensor circuit is made with the terminals of the transmitter module.

The field transmitter has no display.

Display-module type DIH5*-B

The display-module provides a round size PCB fitted on the rear side with electronic components, and LCD-display and switches on the front side.

The PCB is mounted in a plastic enclosure providing a display window and push buttons above the switches on the front side. The open rear side of the enclosure is filled with casting compound covering the electronic components on the PCB.

The display modules are identical except for non-Ex relevant details of function.

Temperature Numeric Display (TND)

The temperature numeric display TND is an optional component of the WIKA transmitter T38. It may be in the scope of delivery of the transmitter or delivered separately for an installation by the customer.

Adaptor-assembly type DIH5*-NT

The adaptor-Assembly type DIH5*-NT provides mechanical support for the display assembly and consists of a printed circuit board (ring size or ring segment size) providing connectors for display assembly, external transmitter and terminals for the IS two wire 4 - 20 mA supply- and signal circuit and wiring between the connectors and the terminals.



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Parameters

1 Field Indicators types DIH5*-I

1.1 2-wire supply and signal circuit

Terminals + and -

Maximum input voltage	U_i	DC	29	V
Maximum input current	I_i		100	mA
Maximum input power	P_i		680	mW
Maximum internal capacity	C_i		13.2	nF
Maximum internal inductivity	L_i		1.2	μ H

1.2 Output circuit

2-pin connector / 2-wire connection cable

Maximum output voltage	U_o	DC	29.8	V
(only short-time; caused by inductance voltage of internal coil)				
Maximum output current	I_o		109.2	mA
Maximum output power	P_o		680	mW

Max. external capacitance C_o according to the power supply connected to the input circuit reduced by 13.2 nF.

Max. external inductance L_o according to the power supply connected to the input circuit reduced by 1.2 μ H.

1.3 Ambient temperature ranges

Gas applications	for T4	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +85\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +85\text{ }^{\circ}\text{C}$) ¹
	for T5	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$) ¹
	for T6	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +55\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +55\text{ }^{\circ}\text{C}$) ¹
Dust applications	for $P_i = 680\text{ mW}$	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$) ¹
	for $P_i = 650\text{ mW}$	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$) ¹

¹⁾ The values in brackets are valid for special low temperature versions



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2. Field Transmitter type TIF5*-I, TIF11-I and T**.E

2.1 2-wire 4...20 mA supply- and signal circuit

Terminals + and -

Maximum input voltage	U_i	DC	29	V
Maximum input current	I_i		100	mA
Maximum input power	P_i		680	mW

The max. internal capacity is $C_i = 13.2$ nF plus the value of the build-in certified transmitter module.

The max. internal inductivity is $L_i = 1.2$ μ H plus the value of the build-in certified transmitter module. See also parameters in the operating instructions (WIKA).

2.2 Sensor circuit

Connection at the connection facilities of the build-in transmitter modules T38, T15 or T16.

The output parameters of the separately certified build-in WIKA transmitter modules are listed in IECEx BVS 23.0009 X (DE/BVS/23/2031) and IECEx BVS 19.002 X (DE/BVS/19/2065). See also parameters in the operating instructions (WIKA).

2.3 Ambient temperature ranges

Gas applications	for T4	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +85\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +85\text{ }^{\circ}\text{C}$) ¹
	for T5	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$) ¹
	for T6	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +50\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +50\text{ }^{\circ}\text{C}$) ¹
Dust applications	for $P_i = 680$ mW	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$) ¹
	for $P_i = 650$ mW	$-40\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$ (or $-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$) ¹

¹⁾ The values in brackets are valid for special low temperature versions