



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

Certificate No.: IECEx IMQ 17.0008X

Issue No: 0

Certificate history:

Issue No. 0 (2017-06-30)

Status: **Current**

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Date of Issue: **2017-06-30**

Applicant: **TELEINDUSTRIA S.r.l.**
via Palermo, 12 - 20090 Assago (MI)
Italy

Equipment: **Explosion proof analogue telephone series TEL569**
Optional accessory:

Type of Protection: **Ex eb ib mb tb**

Marking:
Ex eb ib mb IIC T5 Gb
Ex ib tb IIIC T100 °C Db

OR

Ex eb ib mb T6 Gb
Ex ib tb IIIC T85 °C Db

*Approved for issue on behalf of the IECEx
Certification Body:*

Mr. Mauro CASARI

Position:

IMQ ExCB Manager

*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:

Istituto Italiano del Marchio di Qualità S.p.A
Via Quintiliano 43
20138 Milano
Italy





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Date of Issue: 2017-06-30 Page 2 of 3
Manufacturer: **TELEINDUSTRIA S.r.l.**
via Palermo, 12 - 20090 Assago (MI)
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 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 electrical apparatus 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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 equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[IT/IMQ/ExTR17.0009/00](#)

Quality Assessment Report:

[IT/IMQ/QAR17.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

TEL569 series are explosion proof analog telephones designed for use in potentially explosive atmosphere, EPLs Gb and Db. The main body of device is composed by an aluminium cast enclosure, protected by increased safety "e" and dust-tight "t" method. Inside the enclosure are located the circuit boards protected by means of intrinsic safety "i" and encapsulation "m" methods. The external connections are made via Ex e approved terminal blocks, that protruding from the encapsulated main circuit board.

Temperature class and ambient temperature

- T6 and maximum surface temperature of T85 °C in an ambient temperature range of $-40\text{ °C} \leq T_a \leq 50\text{ °C}$
- T5 and maximum surface temperature of T100 °C in an ambient temperature range of $-40\text{ °C} \leq T_a \leq 60\text{ °C}$

Safety ratings

Um = 160 Vrms (60 Vdc + 100 Vac 20 ÷ 60 Hz, superimposed)
Maximum power input is defined as 1,2W.

IP code : IP65 according to IEC 60529

Key code : see Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Only vertical suspended installation position is permitted
- Potential electrostatic charging hazard

Installation conditions and Warnings specified in details in Annex.

Annex:

[IECEX IMQ 17.0008X issue No. 0 Annex.pdf](#)

Annex to: IECEx IMQ 17.0008X issue No. 0
 Applicant: TELEINDUSTRIA S.r.l.
 Apparatus: Explosion proof analogue telephone
 Series: TEL569



General description

TEL569 series are explosion proof analog telephones designed for use in potentially explosive atmosphere, EPLs Gb and Db.

The main body of device is composed by an aluminium cast enclosure, protected by increased safety “e” and dust-tight “t” method.

Inside the enclosure are located the circuit boards protected by means of intrinsic safety “i” and encapsulation “m” methods.

The external connections are made via Ex e approved terminal blocks, that protruding from the encapsulated main circuit board.

Temperature class and ambient temperature

Ambient temperature	Temperature class
$-40\text{ °C} \leq T_a \leq 50\text{ °C}$	T6 and maximum surface temperature of T85 °C
$-40\text{ °C} \leq T_a \leq 60\text{ °C}$	T5 and maximum surface temperature of T100 °C

Design options

Key code

[a]	[b]	-	[c]
■■■	■■■	-	■■

[a]	Equipment type	TEL	: Telephone
[b]	Series	569	: Analogue telephone
[c]	Keyboard layout:	T -	: Complete keyboards (maximum number of keys)
		M“n”	: Keyboard reduced to “n” numbers of keys

Number of digits (■)

IP code: IP65 according to IEC 60529

Safety ratings

Um = 160 Vrms (60 Vdc + 100 Vac 20 ÷ 60 Hz, superimposed)

Maximum power input is defined as 1,2W

Annex to: IECEx IMQ 17.0008X issue No. 0
Applicant: TELEINDUSTRIA S.r.l.
Apparatus: Explosion proof analogue telephone
Series: TEL569



Markings

Ex eb ib mb IIC T5 Gb	Ex ib tb IIIC T100 °C Db
Ex eb ib mb IIC T6 Gb	Ex ib tb IIIC T85 °C Db

Conditions of use

- Only vertical suspended installation position is permitted
- Potential electrostatic charging hazard

Installation conditions

- Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of IEC 60079-0.
Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals request special considerations and additional measures by the side of installer or user.
- These should be specified to the manufacturer by the user; it is not a required by applicable standards that the certification body confirm suitability for the adverse conditions.
- Proximity sensors shall be installed according to IEC 60079-14 standard.
- Metal parts shall be grounded.

Warnings

- “WARNING – DO NOT OPEN WHEN ENERGIZED”
- “WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS”

Manufacturer’s documentation

Installation Manual Explosion-proof Telephone series “569”
code: TEL569-16-IM-001-2-EN, rev. 19.05.2017