

CESI

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Capitale sociale 8 550 000 €
interamente versato
Codice fiscale e numero
iscrizione CCIAA 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 428222
P.I. IT00793580150

Schema di certificazione

CESI-ATEX

Il CESI è stato autorizzato
dal governo italiano ad
operare quale organismo di
certificazione di apparecchi
e sistemi destinati a essere
utilizzati in atmosfera
potenzialmente esplosiva
con D.M. 1/3/1983, D.M.
19/6/1990, D.M. 20/7/1998
e D.M. 27/9/2000

CERTIFICATE



[1] EC-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate number:

CESI 03ATEX 043

[4] **Equipment: Hand Held Communicator type 691 HT**

[5] **Manufacturer: ABB SACE S.p.A.**

[6] **Address: Via Statale 113, 22016 Lenno (CO) - Italy**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 confidential report n. EX-A3/007517.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + A1..A2 EN 50020: 2002 EN 50284: 1999

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:



II 1 G

EEx ia IIC T4

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date March 17, 2003 - Translation issued the March 17, 2003

Prepared
Francesco A. Esposito

Verified
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CESI

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Business Unit Certificazione

Il Responsabile

[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 043**

[15] **Description of equipment**

The hand held communicator type 691HT is a battery powered apparatus, housed in plastic case, suitable to communicate with transmitter in hazardous area.

The communicator can send and receive data from/to the transmitter by a membrane keyboard and LCD display.

The communication, with HART protocol, uses the same two line wires of the 4÷20 mA transmitter signal.

Electrical characteristics

The hand held communicator type 691HT is supplied by an independent potted battery pack type AF5-RA-10002.

Intrinsically safe circuits parameters

Ui	:	30 Vdc
Ii	:	215 mA
Pi	:	0,85 W
Ci	:	40 nF
Li	:	0 (trascurabile)

Warning label

Use the AF5-RA-10002 battery pack only.

Recharge in non hazardous area with a maximum current of 50 mA dc.

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[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 043**

[16]

Report n.

CESI EX-A3/007517.

Routine tests

The manufacturer must carry out the routine tests prescribed at clause 24 of the EN 50014 standard.

Descriptive documents (prot. EX-A3/007518)

- n. DH 3004	rev.	2 sheets	dated	28.02.2003
- n. 1H5-15-00602	rev.	3 sheets	dated	31.01.2001
- n. 1H5-15-00603	rev.	1 sheet	dated	31.01.2001
- n. AC5-15-07511	rev.	1 sheet	dated	08.04.1991
- n. AN 0656	rev.	1 sheet	dated	28.01.2003
- n. AN 0308	rev.	1 sheet	dated	28.02.2003
- n. AC5-15-26140	rev.	1 sheet	dated	28.02.2003
- n. AC5-15-26170	rev.	1 sheet	dated	28.02.2003
- n. IME 691 HT	rev. 1	60 sheets	dated	28.02.2003
- n. Dichiarazione CE		1 sheet	dated	28.02.2003

One copy of all documents is kept in CESI files.

[17]

Special conditions for safe use

None.

[18]

Essential Health and Safety Requirements

Assured by the conformity to the standards.