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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. 429222  
P.I. IT00793580150

[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 04 ATEX 095**

[4] Equipment: Power supply / Current loop repeater series DAT 5030 IS

[5] Manufacturer: **DATEXEL S.r.l.**

[6] Address: Via Oslavia, 21 – 21049 TRADATE (VA) - 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-A4510711.

[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:

**Ex II (1) GD [EEx ia] IIC**

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

**Date 31 August 2004 – Translation issued the 31<sup>st</sup> August 2004**

**Prepared**  
Enrico Radaelli

**Verified**  
Mirko Balaz

**Approved**  
Ulisse Colombo

**CESI**  
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO  
Business Unit Certificazione  
SI Responsabile





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## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 04 ATEX 095**

[15] **Description of equipment**

Power supply / Current loop repeater type DAT 5030 IS /A, DAT 5030 IS /AH, DAT 5030 IS /B and DAT 5030 IS /BH.

The equipments in subject are associated apparatus with function of transmitter power supply / current loop repeater; they achieve the galvanic insulation between input and output and are suitable to be installed on DIN bar.

Type DAT 5030 IS /A is a single channel device, instead type DAT 5030 IS /B is a double channel device.

Types DAT 5030IS /AH and DAT 5030 IS /BH are able to transfer an HART signal to output.

**Electrical characteristics**

**• DAT 5030 IS /A, DAT 5030 IS /AH:**

Supply: (terminals I-J); Signal output: (terminals A-B-C-D)

Um: 250 V

Transmitter power supply: (terminals 4-6)

Uo: 26.4 V	Ui: 30 V
Io: 93 mA	Ii: 100 mA
Po: 615 mW	Pi: 0.75 W
Lo: 4.2 mH	Li: ~0 mH
Co: 75 nF	Ci: 12 nF

Signal input: (terminals 6-5)

Uo: 1.2 V	Ui: 30 V
Io: 46 mA	Ii: 100 mA
Po: 14 mW	Pi: 0.75 W
	Li: ~0 mH
	Ci: 12 nF

Ambient temperature: -20 ÷ + 60°C

**• DAT 5030 IS /B, DAT 5030 IS /BH:**

Supply: (terminals I-J); Signal output: (terminals A-B-C-D; O-P-Q-R)

Um: 250 V

Transmitter power supply: (terminals 4-6; 14-16)

Uo: 26.4 V	Ui: 30 V
Io: 93 mA	Ii: 100 mA
Po: 615 mW	Pi: 0.75 W
Lo: 4.2 mH	Li: ~0 mH
Co: 75 nF	Ci: 12 nF

Signal input: (terminals 6-5; 16-15)

Uo: 1.2 V	Ui: 30 V
Io: 46 mA	Ii: 100 mA
Po: 14 mW	Pi: 0.75 W
	Li: ~0 mH
	Ci: 12 nF

Ambient temperature: -20 ÷ + 60°C

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## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 04 ATEX 095**

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[16] **Report n. CESI EX-A4510711**

### **Routine tests**

The manufacturer shall carry out the routine tests prescribed at paragraph 24 of EN 50014 standard and the test of transformers prescribed at paragraph 8.2 of EN 50020 standard.

### **Descriptive documents (prot. EX-A4510718)**

- n. NT 04001 Rev. 3	(27 pg.)	dated	24.08.04
- n. NT 04006	(2 pg.)	dated	28.06.04
- n. STP 81 Rev. 3	(3 pg.)	dated	24.08.04
- n. ISTRUZIONI DAT5030 IS ATEX Rev.1	(3 pg.)	dated	08.04

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 compliance to the Standards.