



(1) **EC TYPE EXAMINATION CERTIFICATE**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 94/9/EC**

(3) EC Type Examination Certificate Number

**PTB 04 ATEX 2023**

(4) Equipment: Model 6134-.. p/i Converter

(5) Manufacturer: SAMSON AG Mess- und Regeltechnik

(6) Address: Weismüllerstr. 3, 60314 Frankfurt am Main, Germany

(7) The equipment and any acceptable variation thereof are specified in the schedule to this certificate.

(8) The Physikalisch-Technische Bundesanstalt, notified body number 0102 according to Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 specified in Annex II to the Directive.

The examination and test results are recorded in confidential report.

**PTB Ex 04-23466**

(9) The essential health and safety requirements are satisfied by compliance with

**EN 50014:1997 + A1 + A2**

**EN 50020:2002**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use as specified in the schedule to this certificate.

(11) According to the Directive 94/9/EC, this EC Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the Manufacture and apply to the Manufacture and supply of this equipment.



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



Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 19 March 2004

(Signature) (Seal)  
Dr.-Ing. U. Johannsmeyer  
Regierungsdirektor

(13) **S c h e d u l e**

(14) **EC Type Examination Certificate No. PTB 04 ATEX 2023**

(15) **Description of Equipment**

The Model 6134-1 p/i Converter serves for converting a standard pressure signal into a pressure-proportional current signal of 4 to 20 mA in the signal circuit.

The Model 6134-1 p/i Converter is a passive two-terminal network which may be connected to any certified intrinsically safe circuit, provided the permissible values of  $U_i$ ,  $I_i$  and  $P_i$  are not exceeded.

The media used are non-combustible gases and vapours.

The equipment is intended for use inside and outside of hazardous locations.

The correlation between temperature classification and permissible ambient temperature ranges is shown in the table below:

<b>Temperature class</b>	<b>Permissible ambient temperature range</b>
T6	-40 °C ...60 °C
T5	-40 °C ...70 °C
T4	-40 °C ... 80 °C

**Electrical data**

Signal circuit

Type of protection; Intrinsic safety  
EEx ia IIC only for connection to a certified intrinsically safe circuit

**Maximum values:**

$U_i$  = 28 V  
 $I_i$  = 115 mA  
 $P_i$  = 1 W

$L_i$  = negligible  
 $C_i$  = 5.3 nF

(16) Test report **PTB Ex 04-23466**

(17) Special conditions for safe use

None

(18) **Special health and safety requirements**

Are satisfied by compliance with the standards specified above.

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, 19 March 2004

(Signature)                      (seal)  
Dr.-Ing. Johannsmeyer  
Regierungsdirektor