



T R A N S L A T I O N

(1) **EC TYPE EXAMINATION CERTIFICATION**

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

(3) EC Type Examination Certificate Number

PTB 02 ATEX 2075

(4) Equipment: Model 6051-1.. Pressure Transmitter

(5) Manufacturer: SAMSON AG, Mess- und Regeltechnik

(6) Address: Weismüllerstr. 3, D-60314 Frankfurt, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body number 0102 in 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 as specified in Annex II to the Directive.

The examination and test results are recorded in confidential report
PTB-Ex 02-22050.

(9) The Essential Health and Safety Requirements are satisfied by compliance with

EN 50014: 1997+A1+A2 EN 50020: 1994

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use 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 supply of the equipment.



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



Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, 19. July 2002

(Signature)

(Seal)

Dr. Ing. U. Johannsmeyer
Regierungsdirketor

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

(14) **EC TYPE EXAMINATION CERTIFICATE No. PTB 02 ATEX 2075**

(15) **Description of Equipment**

The Model 6051-1.. Pressure Transmitter converts input signals from pressure sensors into current signals of 4...20 mA in the output circuit which are proportional to the pressure.

The pressure transmitter is a passive two-terminal network that may be connected to any certified intrinsically safe circuit, provided the permissible maximum values of U_i , I_i and P_i are not exceeded.

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

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

Temperature class	Permissible ambient temperature range
T6	-45 °C ... + 60 °C
T5	-45 °C ... +70 °C
T4	-45 °C ... + 80 °C

Electrical data

Signal circuit
(terminals 11/12 and /or
81/82

Type of protection: Intrinsic safety EEx ia IIC

Maximum values:

U_i = 28 V
 I_i = 115 mA
 P_i = 1 W
 C_i = 5 nF
 L_i = 49 μ H

EC Type Examination Certificates without signature and seal are invalid.
This EC Type Examination Certificate may only be reproduced in its entirety and without any changes, schedule included.
Extracts or changes shall require the prior approval of the Physikalisch-Technische Bundesanstalt.

(16) **Test Report PTB Ex 02-22050**

(17) **Special conditions for safe use**

None

(18) **Special Health and Safety Requirements**

In compliance with the standards specified above.

Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, 19. July 2002

(Signature) (seal)

Dr. Ing. U. Johannsmeyer
Regierungsdirektor