



T R A N S L A T I O N

(1) **EX 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 03 ATEX 2211 X

(4) Equipment: Model 3730-39.. HART capable Positioner

(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 03-23428

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

EN 50014:1997 + A1 + A2 EN 50018:2000 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 is equipment.



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



Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, 22. Oktober 2003

(Signature)

(Seal)

Dr.-Ing. U. Gerlach

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

(14) **EC Type Examination Certificate No. PTB 03 ATEX 2211 X**

(15) **Description of Equipment**

The Model 3730-39.. HART capable Positioner is a positioner with communication capability and serves for adjusting valve stem positions to a control signal. The equipment consists of the Model 3730-21.. HART capable Positioner certified under PTB 02 ATEX 2174 interconnected to the Model 3770-1.. Field Barrier certified under PTB 98 ATEX 1025 X.

For instrument air non-combustible media are used.

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:

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

Electrical data

Signal circuit (terminals Ch 2 +/- and Ch 3 +/-) Rating	(0)4 to 20 mA or UN up to 10 V resp. or NAMUR proximity switches
Input Nominal fuse current	Um = 250 V IN = 80 mA
Signal circuit channel 1 (terminals Ch 1 +/-)Rating	(0)4 to 20 mA
Input Nominal fuse current	Um = 250 V IN = 80 mA

(16) Test report **PTB Ex 03-23428**

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

The Model 3770-1.. Field Barrier shall be connected via cable entries or conduit system suitable for the purpose and which satisfy the requirements of EN 50018 Clauses 13.1 and 13.2 and for which a separate certificate has been issued.

Cable entries (Pg cable glands) and closing plugs of the simple type shall not be used. Where the field barrier is connected via a conduit entry approved for this purpose the associated sealing device shall be applied directly on the enclosure.

Apertures not used shall be closed in compliance with En 50018 Clause 11.9.

An equipotential bonding conductor shall be provided along the intrinsically safe output circuits.

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

In compliance with the standards specified above.

Zertifizierungsstelle Explosionsschutz
By order

Braunschweig, 22. Oktober 2003

(Signature) (seal)

Dr. Ing. U. Gerlach