



**BUREAU
VERITAS**



1. Extension for EC Type Examination Certificate

- (1) EC Type examination Number

EPS 11 ATEX 1 329 X

- (2) Equipment: Gasanalyzer Type GMS820P
(3) Manufacturer: SICK MAIHAK GmbH
(4) Address: Poppenbütteler Bogen 9b
22399 Hamburg
Germany

- (5) Description:

Alternative Flame arrestors and cable glands can be used with the equipment according to test report.

Additionally new intrinsic safe input/output barriers can be used with following values:

1 channel DC Version Stahl-9001-01-252-057-141

$U_0 = 25,2 \text{ V}$ $L_0 \leq 6,3 \text{ mH}$

$I_0 = 57 \text{ mA}$ $C_0 \leq 107 \text{ nF}$

$P_0 = 359 \text{ mW}$

2 channel AC-Version Stahl 9002-22-158-200-001

Channel 1/Channel 2 (per barrier):

$U_0 = 7,9 \text{ V}$ $L_0 \leq 4,0 \text{ mH}$

$I_0 = 100 \text{ mA}$, $C_0 \leq 8,8 \text{ }\mu\text{F}$

$P_0 = 198 \text{ mW}$

Combined:

$U_0 = 15,8 \text{ V}$ $L_0 \leq 0,5 \text{ mH}$

$I_0 = 200 \text{ mA}$ $C_0 \leq 478 \text{ nF}$

$P_0 = 395 \text{ mW}$

Following special condition for safe use is added:

The measuring function according to annex II paragraph 1.5.5 of the directive is not matter of this EC-type examination.

Die The test results of the extension are recorded in the confidential report 11TH0132.

- (6) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009

EN 60079-1:2007

EN 60079-7:2007

EN 60079-11:2007

Certification department of explosion protection

Türkheim, June 28, 2012

D. Zitzmann

