

[1] **EC-TYPE EXAMINATION CERTIFICATE**

according to Directive 94/9/EC, Annex III

(Translation)



[2] Equipment and Protective Systems intended for use
in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU14ATEX1119**

[4] Equipment: **Pressure transmitter** type CA1xxx
Submersible pressure transmitter type CG1xxx

[5] Manufacturer: LABOM Mess- und Regeltechnik GmbH

[6] Address: Im Gewerbepark 13
27798 Hude
Germany

[7] The design of the equipment mentioned in [4] and any acceptable variations thereto are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that the in [4] mentioned equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The test results are recorded in the test report IB-14-3-092 of 13 June 2014.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, EN 60079-11:2012 and EN 60079-26:2007.

[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 under [17] in the schedule to this EC-Type Examination Certificate.

[11] 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 this equipment.

[12] The marking of the equipment mentioned in [4] shall include the following:

Type CA1xxx with circular connector M12 II 1G Ex ia IIC T4 Ga

Type CA1xxx II 1G Ex ia IIB T4 Ga or II 2G Ex ia IIC T4 Gb

Type CG1xxx II 1G Ex ia IIB T4 Ga or II 2G Ex ia IIC T4 Gb
-40 °C ≤ T_a ≤ +85 °C

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Authorised for certifications
- Explosion protection -

By order

(Dr. Wagner)



Freiberg, 13 June 2014

Certificates without signature and seal are not valid.
Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Schedule

[13]

Schedule

[14] to the EC-TYPE EXAMINATION CERTIFICATE IBExU14ATEX1119

[15] **Description of the equipment**

The pressures transmitters type CA1xxx as well as the submersible pressure transmitters type CG1xxx are pressure transmitters consisting of a measuring cell and evaluation electronics arranged on several boards in a high-grade steel enclosure with process tap. The equipment can be used in all Ex-zones. It is supplied with an intrinsically safe power source.

Category 1 equipment

The measuring cell of the pressure transmitter may be operated in zone 0 at normal atmospheric conditions (temperature from -20 °C to +60 °C, pressure from 0.8 bar to 1.1 bar, oxygen content about 21 %).

Types:

CA1xxx pressure transmitter in type of protection intrinsic safety with a current output 4...20 mA

CG1xxx submersible pressure transmitter in type of protection intrinsic safety with a current output 4...20 mA

Technical Data

Ambient temperature range: -40 °C to +85 °C (apart from zone 0)
Medium temperature range: -40 °C to +100 °C

Electrical Data

Supply electric circuit: in type of protection intrinsic safety Ex ia IIC
(terminals: +U; -U)

U _i	27 V
I _i	125 mA
P _i	0.85 W
C _i	5 nF
L _i	negligible

[16] **Test report**

The test results are recorded in the test report IB-14-3-092. The test documents are part of the test report.

Summary of the test results:

The pressures transmitters type CA1xxx as well as the submersible pressure transmitters type CG1xxx fulfil the requirements of type of protection intrinsic safety on an electrical apparatus of the Equipment Group II, Explosion Group IIB or IIC, Category 1G or 2G and Temperature Class T4.

[17] **Special conditions**

none

[18] **Essential Health and Safety Requirements**

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 13 June 2014



(Dr. Wagner)