



Translation

EC-Type Examination Certificate

- Directive 94/9/EC -

**Equipment and protective systems intended for use
in potentially explosive atmospheres**

BVS 07 ATEX E 092 X

- (4) **Equipment:** Overfill sensor type NivOil blockage sensor
- (5) **Manufacturer:** IER Mess- und Regeltechnik GmbH
- (6) **Address:** 68199 Mannheim, Germany
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council 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, given in Annex II to the Directive.
The examination and test results are recorded in the test and assessment report BVS PP 07.2104 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- | | |
|------------------|--------------------------------|
| EN 60079-0:2006 | General requirements |
| EN 60079-11:2007 | Intrinsic safety 'i' |
| EN 60079-26:2004 | Equipment group II category 1G |
- (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) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate
- (12) The marking of the equipment shall include the following:

II 1G Ex ia IIB T3

DEKRA EXAM GmbH
Bochum, dated 18. September 2007

Signed: Dr. Eickhoff

Signed: Dr. Wittler

Certification body

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate**

BVS 07 ATEX E 092 X

(15) 15.1 Subject and type

Overfill sensor type NivOil blockage sensor

15.2 Description

The overfill sensor consists of a cylindrical plastic enclosure (surface resistance $\leq 10^9 \Omega$).

One end of the enclosure is designed as a measuring chamber open at one side which contains an electrically heated PTC resistor sensor; the other end is connected to a cable entry for the fixed cable of up to 300m length.

The surface resistance of the exterior shell of the connecting cable is larger than $10^9 \Omega$.

15.3 Parameters

15.3.1 Supply and signal circuit

Maximum input voltage	U_i	DC	17.9	V
Maximum input current	I_i		157	mA
Maximum input power	P_i		695	mW
Maximum internal capacity	C_i		60	nF
Maximum internal inductance	L_i		0.3	mH

15.3.2 Ambient temperature range $-20 \text{ }^\circ\text{C} \leq T_a \leq 60 \text{ }^\circ\text{C}$

(16) Test and assessment report

BVS PP 07.2104 EG as of 18.09.2007

(17) Special conditions for safe use

17.1 The connecting cable of the overfill sensor has to be led through the wall separating areas meeting the requirements of category 1G from less hazardous areas in such a way that the degree of protection IP 67 according to EN 60529 will be achieved.


17.2 The connecting cable of the sensor may only be installed in areas where no electrostatic charges will occur.

17.3 The technical information provided by the manufacturer regarding the use of the overfill sensor in contact to the aggressive and corrosive media have to be observed.

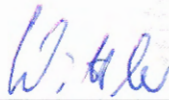
We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 05.08.2008
BVS-Scha/Ar E 1091/08

DEKRA EXAM GmbH



Certification body



Special services unit