



Prüf- und Zertifizierungsstelle

ZELM Ex



(1) **EC-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:

ZELM 04 ATEX 0217

(4) Equipment: **Supply unit SINEAX B812**

(5) Manufacturer: **Camille Bauer AG**

(6) Address: **Aargauerstrasse 7, CH-5610 Wohlen**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Prüf- und Zertifizierungsstelle ZELM Ex, notified body No. 0820 in accordance with 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, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report ZELM Ex 0780415300.

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

EN 50 014: 1997+A1+A2

EN 50 020: 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 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 or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this Certificate.

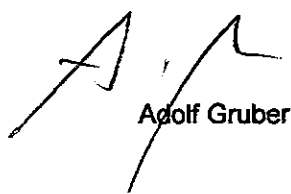
(12) The marking of the equipment shall include the following:



II (1) G D [EEx ia] IIC

Zertifizierungsstelle **ZELM Ex**

Braunschweig, September 10, 2004


Adolf Gruber



Sheet 1/3

EC-type-examination Certificates without signature and stamp are not valid. The certificates may only be circulated without alteration. Extracts or alterations are subject to approval by the Prüf- und Zertifizierungsstelle ZELM Ex. This English version is based on the German text. In the case of dispute, the German text shall prevail.



Prüf- und Zertifizierungsstelle

ZELM Ex



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE ZELM 04 ATEX 0217

(15) Description of equipment

The supply unit is used for the supply of 2-wire-measuring transducers installed inside the explosion hazardous area as well as for the electrical isolation of the measured signal. The supply unit facilitates the communication between correspondingly equipped measuring transducers and suitable hand-held terminals or host-computers.

The maximum ambient temperature range conducts: -20 °C to +50 °C

Electrical data

Auxiliary power
(screw terminals 10 and 11)

direct voltage	20 V – 70 V	($U_m = 125$ V)
or		
alternating voltage	20 V – 70 V	($U_m = 253$ V)
resp.		
direct voltage	60 V – 125 V	($U_m = 125$ V)
or		
alternating voltage	60 V – 253 V	($U_m = 253$ V)

(according to the version)

Input circuit
(screw terminals 4, 5)

type of protection Intrinsic Safety EEx ia IIC/IIB
maximum values:

$U_o = 28,2$ V
 $I_o = 95$ mA
 $P_o = 670$ mW

(linear output characteristic)

	IIC	IIB
max. permissible external capacitance C_o	81 nF	641 nF
max. permissible external inductance L_o	4mH	15mH

Output circuit
(screw terminals 7, 8 and 9)

Nominal voltage ≤ 120 V
Only for the connection to devices with operating voltages less than 253 V

The measuring input circuit are safely electrically isolated from the output circuit and the auxiliary power up to a peak value of the nominal voltage of 375 V.

(16) Report No.

ZELM Ex 0780415300

Sheet 2/3



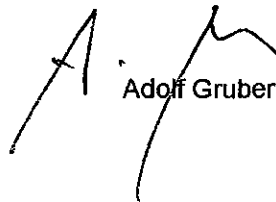
Prüf- und Zertifizierungsstelle
ZELM Ex



Schedule to EC-TYPE-EXAMINATION CERTIFICATE_ZELM 04 ATEX 0217

- (17) Special conditions for safe use
not applicable
- (18) Essential Health and Safety Requirements
met by standards

Zertifizierungsstelle ZELM Ex


Adolf Gruber



Braunschweig, September 10, 2004

