

(1)
(2)
(2)

EC Type Examination Certificate

- Guideline 94/9/EG -

Devices and Protective Systems for Intended Use in Explosion Hazard Areas

(3)

DMT 99 ATEX E 095

(4) **Device:** Ex Signal and Ex Secondary Alarm Type 5842/
(5) **Manufacturer:** Fernsprech- u. Signalbau GmbH & Co.KG
(6) **Address:** 42503 Velbert, Germany

(7) The design of this device as well as its permissible variations are specified in the attachment to this prototype test certification.

(8) The Deutsche Montan Technologie GmbH certification office, known as Office No. 0158 under Article 9 of Guideline 94/9/EG as set forth by the European Parliament and its Council, dated 23 March 1994, herewith certifies that this device conforms to fundamental safety and health requirements in its concept and build for protective systems intended for use in explosion hazard areas according to Attachment II of the Guideline.

The results of testing are documented in the confidential Test Report No. BVS PP 99.2085 EG.

(9) The fundamental safety and health requirements were fulfilled by conformance with
EN 50014:1992 (VDE 0170/0171 Part 1/3.94) General Stipulations
EN 50019:1994 (VDE 0170/0171 Part 6/3.96) Extra Safety 'e'
EN 50020:1994 (VDE 0170/0171 Part 7/4.96) Intrinsic Safety 'i'
EN 50028:1987 (VDE 0170/0171 Part 9/7.88) Moulded Encapsulation 'm'

(10) If the letter "X" is appended to the end of the certification number, special conditions for the safe use of the device have been included in an attachment to this certification.

(11) This EC Prototype Test Certificate covers only the described device's concept and build. Additional requirements in Guideline 94/9/EG are to be fulfilled for the manufacture and dissemination of this device.

(12) The markings on the device must include the following information:



II 2G EEx em [ib] IIC T6

Deutsche Montan Technologie GmbH

Essen, Germany: 12 November 1999

<signature>
DMT Certification Office

<signature>
Discipline Manager

(13) Attachment to

(14) **EC Prototype Test Certification**

DMT 99 ATEX E 095

(15) 15.1 Designation and Type

Ex Signal Alarm Type 5842/3
Ex Secondary Alarm Type 5842/2

15.2 Description

The ex signal and ex secondary alarm type 5842/ serves as an acoustic signal in explosion protected telephone and signal systems.

15.3 Electrical, Mechanical, and Thermal Characteristic Data

15.3.1 Ex Signal Alarm

Mains voltage (50 Hz ± 5 %)	up to AC	250	V
-----------------------------	----------	-----	---

15.3.2 Ex Secondary Alarm

AC ring voltage	up to UC	75	V
Ring frequency		0 to 54	Hz
DC power supply	up to DC	85	V

Current strength I_k	up to	3	A
------------------------	-------	---	---

(16) Test Report

No. BVS PP 99.2085 EG
20 pages

(17) Special Conditions for Safe Use

not applicable