Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(1) # EC-TYPE-EXAMINATION CERTIFICATE

(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 04 ATEX 2001 X

(4) Equipment: P-NET Controller, type PD-4000/4095

(5) Manufacturer: PROCES-DATA A/S

(6) Address: 8600 Silkeborg, Denmark

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 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 PTB Ex 04-23294.

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

EN 50014:1997 + A1 + A2 **EN 50020:2002**

(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 in accordance to the 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:

Ex II 2 G EEx ia IIB T4

Zertifizierungsstelle Explosionsschutz
By order:

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor

Braunschweig, January 30, 2004

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 24

(13) # SCHEDULE

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 2001 X

(15) Description of equipment

The P-NET controller, type PD-4000/4095 consists of the PD 4095 (intrinsically safe supply unit with a 4-wire P-NET interface) and the PD 4000 display unit which is supplied from the PD 4095. The P-NET controller is installed in the hazardous area.

The permissible range of the ambient temperature is -25 °C up to + 65 °C.

Electrical data

Supply- and signal circuit	type of protection Intrinsic Safety EEx ia IIB only for connection to a certified intrinsically safe circuit with the following maximum values: U_i = 13.9 V P_i = 2.9 W L_i = 2 µH C_i = 110 nF

(16) Test report PTB Ex 04-23294

(17) Special conditions for safe use

The P-NET controller, type PD-4000/4095 including its connection facilities shall be installed as such that at least the degree of protection IP 20 according to EN 60529 is met.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionsschutz
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Braunschweig, Janaury 30, 2004