

(1) CERTIFICATE OF CONFORMITY

(2) KEMA No. **Ex-93.C.9540**

(3) This certificate is issued for the electrical apparatus:

Proces Loop Indicator Model PM5625

(4) Manufacturer:

**S-Products b.v.
Nijverheidscentrum 26
2761 JP Zevenhuizen
The Netherlands**

(5) This electrical apparatus and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

(6) KEMA, being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC), confirms that the apparatus has been found to comply with the harmonised European standards:

Electrical apparatus for potentially explosive atmospheres

**EN 50 014 : 1977 + A1 ... A5, General requirements
EN 50 020 : 1977 + A1 ... A2, Intrinsic safety "i"**

and has successfully met the examination and test requirements which are recorded in a confidential test report.

(7) The apparatus marking shall include the code:

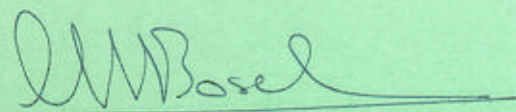
EEx ia IIC T4

(8) The supplier of the electrical apparatus referred to in this certificate, has the responsibility to ensure that the apparatus conforms to the specification laid down in the Annex to this certificate and has satisfied routine verifications and tests specified therein.

(9) This apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Commission Directive of 16 January 1984 (84/47/EEC).

Arnhem, 19 November 1993

by order of the Board of Directors of N.V. KEMA



C.M. Boschloo
Certification Manager

This Certificate including the Annex forms an inseparable whole; reproduction in abridged or modified form is not permitted

N.V. KEMA

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ANNEX

to Certificate of Conformity KEMA No. Ex-93.C.9540

Description

The proces loop indicator Model PM5625 displays the loop current (4..20mA) in a 2-wire system.

Operating temperature range -20°C ... +70°C.

Electrical data

Supply/input circuit
(terminals + and -)

in type of protection intrinsic safety EEx ia IIC,
only for connection to certified intrinsically safe
circuits with the following maximum values:

$$\begin{aligned} U_i &= 30 \text{ V} \\ I_i &= 100 \text{ mA} \\ P_i &= 750 \text{ mW} \end{aligned}$$

Maximum allowed additional external capacitance
 $C_{ext} = 500 \text{ nF}$.

Effective internal inductance L_i is negligibly small.

Mounting instructions

After installation, the proces loop indicator must have a degree of ingress protection of at least IP 20 per IEC publication 529.

Test documentation

Signed

- | | |
|--------------------------|------------------------------|
| 1. Description (7 pages) | 21 June 1993/4 November 1993 |
| 2. Drawing No. | 16 June 1993 |
| S-131-1-A | 15 June 1993 |
| S-132-1-A | 18 June 1993 |
| TB-021-1-A | 17 June 1993 |
| TS-005-1-A | 1 November 1993 |
| TS-006-1-A | 4 November 1993 |
| TC-010-1-A | 27 November 1989 |
| AE-17B (2 sheets) | |

3. Sample

Arnhem, 19 November 1993

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