

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) Equipment or protective system intended for use in potentially explosive atmospheres -  
Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 05ATEX1128**

(4) Equipment or protective system: **Display Type N4400**

(5) Manufacturer: **Varec, Inc.**

(6) Address: **5834 Peachtree Corners East, Norcross GA 30092, USA**

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

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 confidential report no. 2084563.

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

**EN 50014 : 1997 + A1, A2      EN 50020 : 2002      EN 50281-1-1 : 1998 + A1**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 according 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 or protective system shall include the following:



**II 2 G or II 3 D    EEx ia IIC T6 ... T5 T80°C**

Arnhem, 19 August 2005  
KEMA Quality B.V.



C.G. van Es  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change

## SCHEDULE

- (13)
- (14) **to EC-Type Examination Certificate KEMA 05ATEX1128**

(15) **Description**

Display Model N4400 is used for the display of the measurement value of the connected level, pressure or flow transmitter.

The display is provided with keys for local configuration and control purposes

The display is connected to the transmitter via a cable with connectors.

The maximum cable length is 30 m

The enclosure provides a degree of ingress protection of at least IP 65 according to EN 60529.

Ambient temperature range: -40 °C to +60 °C for temperature class T6;  
-40 °C to +75 °C for temperature class T5.

The maximum surface temperature "T" of the enclosure is based on the maximum ambient temperature of 75°C.

**Electrical data**

Supply circuit in type of protection intrinsic safety EEx ia IIC,  
(Connector, Pins 1 ... 4) only for connection to a certified intrinsically safe circuit,  
with the following maximum values:

$U_i$	=	5,6	V
$I_i$	=	47	mA
$P_i$	=	66	mW
$C_i$	=	11	$\mu$ F
$L_i$	=	30	$\mu$ H

The values for the capacitance  $C_i$  and the inductance  $L_i$  include the cable capacitance and inductance.

(16) **Report**

KEMA No 2084563.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

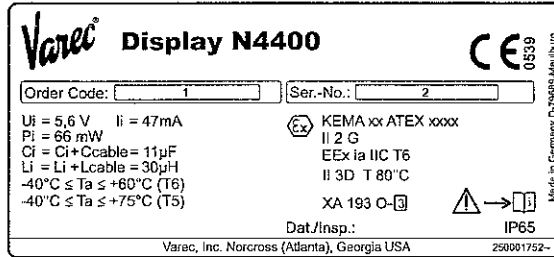
(19) **Test documentation**

1. EC-Type Examination certificate KEMA 02ATEX1203

dated

2. Drawing No. 960006498

05.02.2004



or alternative  
Assembled in USA

- 1 Order Code: N4400- ...
- 2 Serial number
- 3 Actual revision

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Agency controlled drawing.  
No changes without  
prior Agency approval.

<b>Endress+Hauser</b> Endress+Hauser GmbH+Co.KG Maulburg Germany	Schutzvermerk ISO 16016 beachten	Refer to protection notice ISO 16016		Toleranz / tolerance			
	Benennung / title		Erzeuger-Sys creator-sys.	CorelDRAW	letzt. Bearbei. last editor		
	Typenschild N4400 nameplate ATEX EEx ia		Format format	DIN A4	geprüft approved	05.02.04	Steinebrune
			Maßstab / scale	1:1	gezeichnet drawn	05.02.04	Scheffsa
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960006498 --			Änderung / changes	kommt vor / appears			