

Competent Body
TÜV Rheinland
Product Safety GmbH



Am Grauen Stein
D-51105 Köln

accredited by the

Regulierungsbehörde für Telekommunikation und Post
herewith grants a

Certificate of a Competent Body

within the meaning of Paragr. 4 (2) EMC Act respectively Art. 10 (2) of the
EMC Council Directive on compliance with the EMC protection requirements

Certificate Holder:

OCE USA
13231 Delf Place #501
Richmond BC V6V 2C3
Canada

Product:

Drucker
Flat Bed Injet Printer

Identification:

Model No.: Arizona T220
Serial No.: Prototype

This certification was issued in accordance with Article 10 (2) of the Council Directive 89/336/EEC in its latest amended version on the approximation of the laws of the Member States relating to electromagnetic compatibility, implemented in Germany by the "Electromagnetic Compatibility Act of September 18th, 1998 (EMVG, Paragr. 4(2))". This certificate does not testify to compliance with the EMC protection requirements of other laws implementing Directives of the European Community other than Council Directive 89/336/EEC. This certificate relates to the sample submitted for testing or to the technical report.

Registration No.: AV 72031049 0001

Competent Body

Reference No.: 02271333 001 of:29.04.2003

Cologne, 08.05.2003

A handwritten signature in black ink, appearing to read 'M. Heinze'.
Dipl.-Ing. M. Heinze

According to the test instrument manufacturers $Z_{ref} = 0.4717\Omega$. (single phase) The test result for the industrial Printer Model T220, dated on December 19, 2003 are:

$$\begin{aligned} P_{st} &= 8.062 \\ P_{lt} &= n * P_{st} \quad (\text{only one reading was made}) \\ d_c &= 0.496\% \\ d_{max} &= 5.535\% \\ d(t) &= 59\text{ms} \end{aligned}$$

Based on this the maximum permissible system impedance, Z_{sys} will be the minimum of the following four equations:

$$\begin{aligned} 1) \quad Z_{sys} &= Z_{ref} * (d_{max \text{ limit}}/d_{max}) &&= 0.4717 * (4.0/5.535) = 0.3409 \Omega \\ 2) \quad Z_{sys} &= Z_{ref} * (3.3/d_c) &&= 0.4717 * (3.3/0.497) = 3.13833 \Omega \\ 3) \quad Z_{sys} &= Z_{ref} * (P_{st})^{3/2} &&= 0.4717 * (8.062)^{3/2} = 10.79767 \Omega \\ 4) \quad Z_{sys} &= Z_{ref} * (0.65/P_{lt})^{3/2} &&= \text{NA (only one reading was made)} \end{aligned}$$

Based on testing and calculation, the maximum permissible system impedance:
 $Z_{sys} = 0.3409 \Omega$.

This equipment may only be connected to mains connections with an impedance at 50Hz of $Z_{sys} = 0.3409 \Omega$ or less. In case it is observed that this equipment causes 'lightflicker' to the environment, contact the supply authority in order to verify if the mains network has lower impedance than the one specified above

TUV Rheinland W/O: 81647 T2200 P1				
Product:	EN61000-3-2	Dec 19 2003 11:13am		
Serial no:	CAN/USA230VAC T2200	Page 1 of 1		
Description:	Industrial Printer			
Result Name:	T2200			
Voltech IEC1000-3 Windows Software 3.02.03		Test Date: Dec 18 2003 10:51am		
Type of Test:	Flickermeter Test - Table			
Power Analyzer:	Voltech PM3000A v2.16 s/n 1730			
AC Source:	Mains / Manual Source			
Overall Result:	Notes:			
FAIL	Pst and dmax limits exceeded			
	Measurement method - Voltage			
	Source frequency lower than nominal			
	Pst	dc (%)	dmax (%)	d(t) > 3%(ms)
Limit	1.000	3.300	4.000	500
Reading 1	8.062	0.497	5.535	59