

## Center for Quality Engineering

### Test Report No.: D07C0003

**Order No.:** D07C

**Pages:** 3

**Munich,** Aug 17, 2010

**Client:** Omicron electronics

**Equipment Under Test:** Omicron Display Panel CMcontrol

**Manufacturer:** Omicron electronics

**Task:** Identification of compliance with the requirements of EC directive 2004/108/EC (CE-conformity for EMC) on the basis of

**Test Specification(s):**  
 [covered by accreditation]

- EN 61326-1
- FCC 47 CFR Part 15 §15.109
- EN 61000-6-2:2005
- EN 61000-6-3:2007

**Result:** The tested requirements of the before mentioned Specifications are fulfilled.

The results relate only to the items tested as described in this test report.

**edited by:**

**Date**

**Signature**

Rieb  
 Qualification Engineer

Sep 24, 2010



**approved by:**

**Date**

**Signature**

Bauer  
 Lab Manager EMC

Sep 24, 2010



This document was signed electronically.

## 1 Summary

The tests have been performed to analyze the ability of the equipment under test (EUT) to satisfy criteria intended to establish proper operation in the electromagnetic environment that may appear to industrial machinery.

### Tables of Results

#### 1.1 Enclosure Port

	Phenomena	Reference	Test Specification	Criteria	Test Yes/No
FCC	Radiated Emission Electric Field	FCC 47 CFR Part 15 §15.109	30 MHz - 1 GHz Class B	N/A	Yes
FCC	Radiated Emission Electric Field	FCC 47 CFR Part 15 §15.109	1 – 10 GHz Class B	N/A	Yes
CE	Radiated Emission Electric Field	EN 61326-1 CISPR 11	30 MHz - 1 GHz Class B	N/A	Yes
CE	Radiated Immunity Power Frequency Magnetic Field	EN 61326-1 EN 61000-4-8	50 Hz 30 A/m (Effective)	Performance Criterion "A"	Yes
CE	Radiated Immunity Electric Field	EN 61326-1 EN 61000-4-3	80 MHz – 1000 MHz AM 1 kHz; m = 0.8 10 V/m	Performance Criterion "A"	Yes
CE	Radiated Immunity Electric Field	EN 61326-1 EN 61000-4-3	1.4 – 2.7 GHz AM 1 kHz; m = 0.8 3 V/m (1.4 – 2 GHz) 1 V/M (2.0 – 2.7 GHz)	Performance Criterion "A"	Yes
CE	ESD	EN 61326-1 EN 61000-4-2	contact : 4 kV Air : 8 kV	Performance Criterion "B"	Yes

#### 1.2 Power Ports

	Phenomena	Reference	Test Specification	Criteria	Passed Yes/No
CE	Conducted Emission AC Power Ports	EN 61326-1 CISPR 11	150 kHz – 30 MHz Class B	N/A	N/A
CE	Conducted Emission Harmonic Load Currents on AC Power Leads	EN 61326-1 EN 61000-3-2	Class "A"	N/A	N/A
CE	Conducted Emission Voltage fluctuations (Flicker) AC Power Leads	EN 61326-1 EN 61000-3-3	Pst<= 1.0 Plt<= 0.65 dc<= 3.3% dmax<= 4% dt<= 3%	N/A	N/A
CE	Conducted Immunity Continuous Wave AC Power Ports	EN 61326-1 EN 61000-4-6	150 kHz – 80 MHz AM 1 kHz; m = 0.8 3 V	Performance Criterion "A"	N/A
CE	EFT (Burst) AC Power Ports	EN 61326-1 EN 61000-4-4	5/50 ns, 5 kHz test duration: 1 min each +/-2 kV	Performance Criterion "B"	N/A
CE	Surge AC Power Ports	EN 61326-1 EN 61000-4-5	1.2/50 µs  Line to Line: 1 kV, Line to GND: 2 kV	Performance Criterion "B"	N/A
CE	Conducted Immunity AC Power Ports Voltage dips and short interruptions	EN 61326-1 EN 61000-4-11	0%, 1 period 40%, 10 periods 70%, 25 periods 0%, 250 periods	Performance Criteria "B" "C" "C" "C"	N/A

### 1.3 Signal Ports (Ethernet incl. Power over Ethernet)

	Phenomena	Reference	Test Specification	Criteria	Passed Yes/No
CE	Conducted Immunity Continuous Wave Signal Ports	EN 61326-1 EN 61000-4-6	150 kHz - 80 MHz AM 1 kHz; m=0.8 3 V (only for cables > 3m)	Performance Criterion "A"	Yes
CE	EFT (Burst) Signal Ports	EN 61326-1 EN 61000-4-4	5/50 ns, 5 kHz test duration: 1 min each +/- 1 kV (only for cables > 3m)	Performance Criterion "B"	Yes
CE	Surge Signal Ports	EN 61326-1 EN 61000-4-5	1.2 / 50 $\mu$ s 1 kV (only for cables > 30m indoor or outdoor)	Performance Criterion "B"	Yes