

Performance Certification to EMC Directive

Normative Standard: EN61000-6-2 (2005), EN 61000-6-3 (2007), A1 (2011)

Test Unit Description and Serial Number:

TFT EP0518: WIRED MONITOR OPERATOR STATION WITH DISPLAY

S/N: EMI Prototype

Test Report # 3348

Dates of Test: 09-30-2013 through 10-04-2013, 9 January 2014

Test Laboratory:

Midwest EMI Associates, Inc.
Electromagnetic Interference Laboratory
 21234 W. Commercial Drive
 Mundelein, Illinois 60060
 Tel: (847)-918-9886

EN 61000-6-3 EMISSIONS

TEST METHOD	LIMITS
IEC 61000-6-3 Am 1:2007 / A1 :2011 (Cispr 11) Radiated Emissions (DC Power Supply)	B
IEC 61000-6-3 Am 1:2007 / A1 :2011 (Cispr 11) Conducted Emissions (DC Power Supply)	A

EN 61000-6-2 IMMUNITY

TEST METHOD	LEVEL
EN 61000-4-2 Cons Ed 1.2:2009 Electrostatic Discharge Test	2, 4, 6 and 8 kV Air Discharge 2 and 4 kV Contact Discharge A
EN 61000-4-3 Ed. 3.0: 2009 Radiated Immunity Test	13 V/M (10 V/M minimum) 1000 Hz, 80% AM modulation, 900 Mhz, 100% AM, 200 Hz, Square Wave, 30-1000, 1.4-2.0 GHz, 2.0-2.7 GHz (reduced level) A
EN 61000-4-4 Ed. 2.0: 2004-07 Electrical Fast Transients	Power Port - 2 kV – All phases of line, neutral and PE Signal Lines Modules – 1 KV using Haefely Clamp A B
EN 61000-4-5 Ed. 2.0: 2006 Electrical Surge Test	Power Port - .5 kV – All phases of line, neutral and PE Signal Lines Modules – 1 KV using Direct Injection A A
EN 61000-4-6 Ed. 2.2: 2009 Conducted Immunity	10 V RMS Common Mode A
EN 61000-4-8: 2001-03 Magnetic Immunity	30 A/M Min (800 A/M Applied) Three Axes A

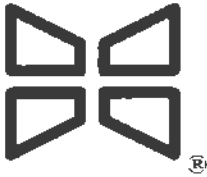
Performance Level:

- A- During testing, normal performance occurs within the specification limits.
- B- During testing, temporary degradation, or loss of function or performance occurs that is self recovering without operator intervention.
- C- During testing, temporary degradation, or loss of function or performance occurs that requires operator intervention or system reset.
- D- Degradation or loss of function that is not recoverable occurs due to damage to equipment, components, software, or to loss or corruption of data.

George A. Bowman

Report by: **George Bowman**
 Midwest EMI Associates
 Narte Certified Engineer, EMC-000738NE





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Mundelein, IL 60060

**Midwest EMI Associates Test Service
Report No. 3348**

Test Specifications

- EN 61000-6-3 Level A Conducted Emissions
- EN 61000-6-3 Level B Radiated Emissions
- EN 61000-4-2 Electrostatic Discharge
- EN 61000-4-3 Radiated Immunity
- EN 61000-4-4 Electrical Fast Transients
- EN 61000-4-5 Surge Test
- EN 61000-4-6 Conducted Immunity Test
- EN 61000-4-8 Magnetic Immunity

Test Device:

**TFT EP0518: WIRED MONITOR
OPERATOR STATION WITH DISPLAY**

Serial Number:

EMI Prototype

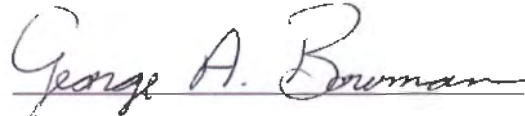
Conducted For:

Mr. Steve Ferry
Task Force Tips
3701 Innovation Way
Valparaiso, IN 46383
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Fax: 1-219-464-7155

Dates of Test:

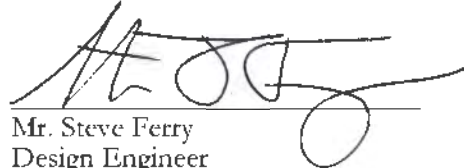
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Technical Data Taken by and
Report Written by:


George Bowman
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NARTE Certified Engineer, EMC-000738NE

Approved By:


Mr. Steve Ferry
Design Engineer
Task Force Tips, Inc.