DATA DISPLAY GROUP

Customer comments on our Prisma boards

Customer statement dated 24.06.2008:

"We have put a Prisma II based unit through some pretty tough tests. Some of the tests exceeded the requirements of Class B CE, we were unable to make the unit fail!!!; I would like to summarise the tests that were carried out on the LCD monitor and associated power supply"

1. Fast Transients
Fast transient pulses were simultaneously applied to mains L + N + E at levels of +/- 1kV, 1.5kV, 2kV, 2.5kV and 4kV. (EN61000-4-4)

Fast transient pulses were also applied to the video input cable using the capacitive clamp method defined in EN 61000-4-4 at levels of +/- 500V and 1kV.

2. ESD
ESD discharges were applied both conducted and air discharges in positive and negative mode. Discharges were applied to the HCP (horizontal coupling plane) and VCP (vertical coupling plane) as well as directly to the EUT. Levels of 4kV contact discharge were used. For air discharge the EUT was tested at 8kV and 10kV.

3. Surge Immunity
Surges were applied to the mains port in accordance with EN 61000-4-5 at levels of 1kV and 2kV across L+N, L+PE and N+PE. 5 surges were applied at 0, 90, 180, 270 and 360 degrees of the mains waveform, in both positive and negative modes for all configurations.
Surges were also applied to the screen of the video cable in accordance with EN61000-4-5 (Figure 17). These were applied at a level of +/-1kV.

4. Voltage dips
Were applied to the mains port at the following levels.
Voltage dip > 95% - for 20mS, 200ms and 500mS
Voltage dip of 60% - for 200mS
Voltage dip of 30% - for 500mS

"After all of the above tests the LCD monitor continued to function normally and did not display any malfunction"

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Customer comment dated 29.10.2008:

"My first reaction is very positive, we (our manager included) were pleased with good soldering and overall controllers quality. GUI is very modern and feature rich, which is a plus.
Prisma performed well with diversity of our cables (one of our problem factors- we are using Supra cables which are also provided to use in military forces, and even those high quality cables had a problem with weak signal)
Unfortunally so we managed to get same fault like with our other controllers, but in very rare occasions, so Prisma feels much better than our current controller

Some less quality cables caused flickering but only in less degree. We got similar problem on another controller but much more seriously.
It appears that our current computer sending too low signal on dvi.
To be honest besides of those smaller faults we got in our lab Prisma is the best controller we tested."

One of our British customers had tough requirements on our Prisma II board because the end-product is used in the cockpit of railway/underground applications, which has to meet several Railway Safety standards.

Please read our customer's comment dated 29.07.2009 regarding this project:

"We are putting the 12.1" (here CMO G121S1) / Prisma II kit through some testing to achieve Rail approvals. So far it has passed insulation (1000 volts), Cold (to -25 Deg.) Heat (to 40 Deg.), shock, vibration and humidity.

Certainly a Far East manufactured board would not have passed."

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