

February 25, 2013

Engineering Memo

Re: CE Marking of Accu-Gold accessories.

What was tested:
AGLS and DAPcheck plus

Tests Performed:

EN61326 CISPR 11 Radiated Emissions
EN61000-4-2 Electrostatic Discharge (± 4 kV contact, 8 kV air)
EN61000-4-3 Radiated Immunity (3V/m)
EN61000-4-4 Electrical Fast Transient Burst (± 0.5 kV)

Tests omitted and reason:

Mains Conducted Emissions	Does not apply
Surge	Does not apply
Conducted Immunity	Past testing proved Radiated Immunity was sufficient
Magnetic Immunity	Does not apply
Voltage Dips & Interrupts	Does not apply

On 1/31/13 the AGLS and DAPcheck plus Accu-Gold accessories were tested at CKC.

The AGLS & DAPcheck plus passed Radiated Emissions with minimum margins of -4.4 dB and -2.7 dB respectively. See attachment.

ESD, FTB and Radiated Immunity were also performed, however, it was determined post testing that the AGDM was not a current production version, thus requiring a retest.

AGLS evaluation:

Radiated immunity (3V/m)

Used light source as input

Added ferrite to AGLS cable at Aux input (Steward pn 28A2025-0A0).

Passed

ESD (4kV contact)

Set threshold to 5% FS.

Added ferrite used in above test.

Passed without crashing.

FTB (Fast Transient Burst ± 0.5 kV) on USB cable

Passed without modification

DAPcheck evaluation:

Radiated immunity (3V/m)

Used internal current source (5V/100M) as input

Added ferrite to Aux cable at input to digitizer (Steward pn 28A2025-0A0).

Passed

ESD (4kV contact)

Added ferrite to USB cable next to the stock one.

Passed

FTB (Fast Transient Burst ± 0.5 kV) on USB cable

Added ferrite to USB cable next to the stock one (as above)

Added ferrite to Aux (as in Radiated immunity test)

Passed