



# EMC testing – do-it-yourself service

*DELTA offers a “do-it-yourself” testing arrangement to members of the EMC club*

## EMC pre-test

Here, we would like to promote the opportunity afforded to EMC Club members to conduct an EMC pre-test in connection with the development of products.

## EMC lab

Members of the EMC Club can use the do-it-yourself testing facilities at Agro Food Park, north of Aarhus or at Hørsholm, north of Copenhagen, Denmark. The facilities provide the opportunity for do-it-yourself testing against a range of base standards.

## Scope

Do-it-yourself EMC testing includes tests in respect of the following standards

Standard	Designation	Conditions & observations	
		Aarhus	Hørsholm
EN/(IEC) 61000-4-2:2009	Immunity test for electrostatic discharges	Max. 30 kV	Max. 15 kV
N/(IEC) 61000-4-3:2006 EN/(IEC) 61000-4-3/A1:2008 EN/(IEC) 61000-4-3/IS1:2009 EN/(IEC) 61000-4-3/A2:2010	Radiated, radio-frequency, electromagnetic field immunity test	Test from 26 MHz – 3 GHz 10 V/m (80 MHz – 1 GHz 20 V/m). Help must be purchased for changing the set-up	Test from 80 MHz – 1GHz 20V/m 1GHz – 6 GHz 20V/m
EN/(IEC) 61000-4-4:2005 EN/(IEC) 61000-4-4/Corr1:2007 EN/(IEC) 61000-4-4/Corr2:2007 EN/(IEC) 61000-4-4/A1:2010	Immunity test for fast transients/ burst transients	5 kHz and 100 kHz burst transients, max 4 kV Max. 32 A via 3-phase coupling network	5 kHz burst transients Max. 16 A via coupling network
EN/(IEC) 61000-4-5:2007	Surge immunity test	4 kV. Surge transients Max. 32 A via 3-phase coupling network	4 kV. Surge transients Max. 16 A via 3-phase coupling network
EN/(IEC) 61000-4-6:2009	Immunity to conducted disturbances, induced by radio-frequency fields	Max. 10V RMS. 150 kHz – 80 MHz	Max. 10V RMS. 150 kHz – 80 MHz
EN/(IEC) 61000-4-8:2010	Power frequency magnetic field immunity test	Device max. 50 x 50 x 50 cm in Helmholtz coil. Max 30 A/m. Tests can be offered on larger devices. Help must be purchased with set-up	Device max. 50 x 50 x 50 cm in Helmholtz coil. Max 30 A/m. Tests can be offered on larger devices with hand-held coil. Help must be purchased with set-up
DS/EN 61000-4-11:1995 DS/ EN 61000-4-11:2004	Immunity test with voltage dips, brief voltage drop-outs and variations in supply voltage	1-phase systems only	Test at 3-phase systems Max. 4500 W/phase
EN/(IEC) 61000-3-2:2001 EN/(IEC) 61000-3-2/A1:2009 EN/(IEC) 61000-3-2/A1:2009	Limits for harmonic current emissions (equipment input current <= 16 A per phase)	1-phase systems only Max 5 kW	Test at 3-phase systems Max. 4500 W/phase

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