

### 5437 / 6437 EMC specifications - immunity

			IEC 61326-2-3, EN 61326-1 Industrial environment		NAMUR NE21 : 2007		IEC 61326-3-1		E10		PR standard specifications	
Port	Phenomenon	Test standard	Test value	Criterion	Test value	Criterion	Test value for safety funtions	Criterion		Criterion	Test value	Criterion
Enclosure	ESD	IEC 61000-4-2	4 kV / 8 kV Contact / Air	B	6 kV / 8 kV Contact / Air	A	6 kV / 8 kV Contact / Air	DS	6 kV / 8 kV Contact / Air	B	6 kV / 8 kV Contact / Air	A 1%
	HF field	IEC 61000-4-3	10 V/m: 80...1000 MHz 3 V/m: 1.4...2 GHz 1 V/m: 2...2.7 GHz	A	10 V/m: 80...2000 MHz 3 V/m: 2...2.7 GHz AM: 1 kHz 80%	A	20 V/m: 80...1000 MHz 10 V/m: 1.4...2 GHz 3 V/m: 2...6 GHz AM: 1 kHz 80%	DS	10 V/m: 80...2000 MHz AM: 1 kHz 80% Step 1% / 3 s	A	20 V/m: 80...1000 MHz 10 V/m: 1.4...2 GHz 3 V/m: 2...6 GHz AM: 1 kHz 80%	A 0.1%
	Magnetic field	IEC 61000-4-8	30 A/m	A	100 A/m	A	30 A/m	DS	NA		30 A/m	A 0.1%
I/O signal	Burst	IEC 61000-4-4	1 kV / 5 kHz	B	1 kV / 5 kHz	A	2 kV Duration x 5	DS	1 kV Period 300 ms Duration 15 ms Duration / polarity 5 s	B	2 kV Duration x 5	A 1.0%
	Surge	IEC 61000-4-5	1 kV - Line to ground	B	1 kV - Line to ground	B	2 kV - Line to ground Pulse number x 3	DS	1 kV - Line to ground 500 V - Differential	B	2 kV - Line to ground 500 V - Differential Pulse number x 3	B
	Conducted RF	IEC 61000-4-6	3 V: 150 kHz...80 MHz AM: 1 kHz 80%	A	10 V: 10 kHz...80 MHz AM: 1 kHz 80%	A	10 V: 150 kHz...80 MHz AM: 1 kHz 80%	DS	10 V: 10 kHz...80 MHz AM: 1 kHz 80% Step 1% / 3 s	A	10 V: 10 kHz...80 MHz AM: 1 kHz 80%	A 0.1%
	Conducted LF	IEC 61000-4-16	Not required		Not required		1...10 V: 1.5...15 kHz 10 V: 15...150 kHz	DS	Not required		1...10 V: 1.5...15 kHz 10 V: 15...150 kHz	A 0.1%

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- A: During testing, normal performance within the specification limits.
- B: During testing, temporary degradation, or loss of function or performance which is self recovering.
- C: During testing, temporary degradation, or loss of function or performance which requires operator intervention or system reset occurs.

Class B equipment		Standard CISPR 22	
Disturbance	Test method	Frequency range	Limits
Radiated	Quasi-peak	30 to 230 MHz	30 dB (µV/m)
		230 to 1000 MHz	37 dB (µV/m)
Conducted	Quasi-peak	0.15...0.50 MHz	40 to 30 dB (µA)
	Average		30 to 20 dB (µA)
	Quasi-peak	0.50 to 30 MHz	30 dB (µA)
	Average		20 dB (µA)

E10 CISPR 16	
Frequency range	Limits
10...150 kHz	96 to 50 dB (µV)
150...350 kHz	60 to 50 dB (µV)
350 kHz...30 MHz	50 dB (µV)