

ISO 10605:2008-07 (E)

Road vehicles - Test methods for electrical disturbances from electrostatic discharge

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Test conditions	3
5	Test location	3
6	Test apparatus and instrumentation	3
6.1	ESD generator	3
6.2	Discharge tips	4
6.3	Discharge current specifications	4
6.4	Coupling and ground reference planes	6
6.5	Insulation block	6
6.6	Insulation support	7
7	Discharge modes	7
7.1	General	7
7.2	Contact discharge mode	7
7.3	Air discharge mode	7
8	Component immunity test method (powered-up test)	7
8.1	General	7
8.2	Test plan	8
8.3	Test procedure for direct discharges	8
8.4	Test procedure for indirect discharges	10
9	Component packaging and handling test method (unpowered test)	12
9.1	General	12
9.2	Test plan	12
9.3	Test procedure	12
10	Vehicle test method	15
10.1	General	15
10.2	Test plan	15
10.3	Test procedure	15
11	Test report	18
Annex A (normative) Current target specification and verification of ESD generator		19
Annex B (informative) Standard target drawings and target verification method		23
Annex C (informative) Function performance status classification (FPSC)		35
Annex D (informative) Test method guidance -- Generator resistor value and air or contact discharge		39

Annex E (informative) Rationale for air discharge generator verification	42
Annex F (informative) Optional test set-up and procedure for electronic modules (powered-up test)	44
Bibliography	50