

Load dump pulse generator type LDS

The relating standards: ISO 16750-2, test pulse A and B Ford FMC 1278 JLR-EMC-CSv1.04A SAE J 1113-11 PSA B21 7110 Renault 36-00-801

The Load Dump Generator LDS generates the pulses A and B according to ISO16750-2 and many other automotive standards.

These pulses may occur in the event of a discharged battery being disconnected while the alternator is generating charging current and with other loads remaining on the alternator circuit at this moment. With the touch screen panel the pulses can be selected and started easily.

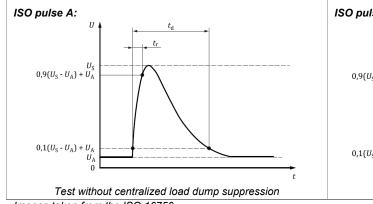
For automated tests a userfriendly software application is available.

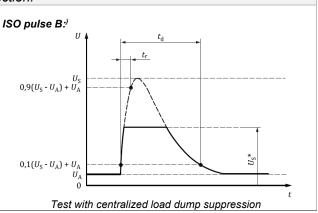
ISO Test pulses A, B Load Dump

Pulse 5a represents the transient produced due to sudden disconnection of the battery from the alternator. Pulse 5b represents a voltage clamped transient produced due to sudden disconnection of the battery from an alternator fitted with Central Load Dump Protection.

PIES

LOAD DUMP SMULAT





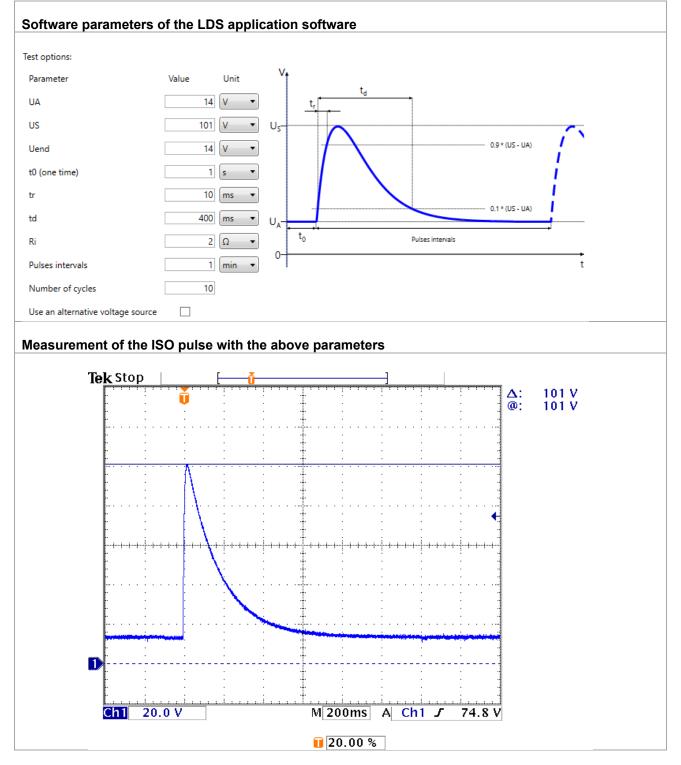
Images taken from the ISO 16750



LDS 100

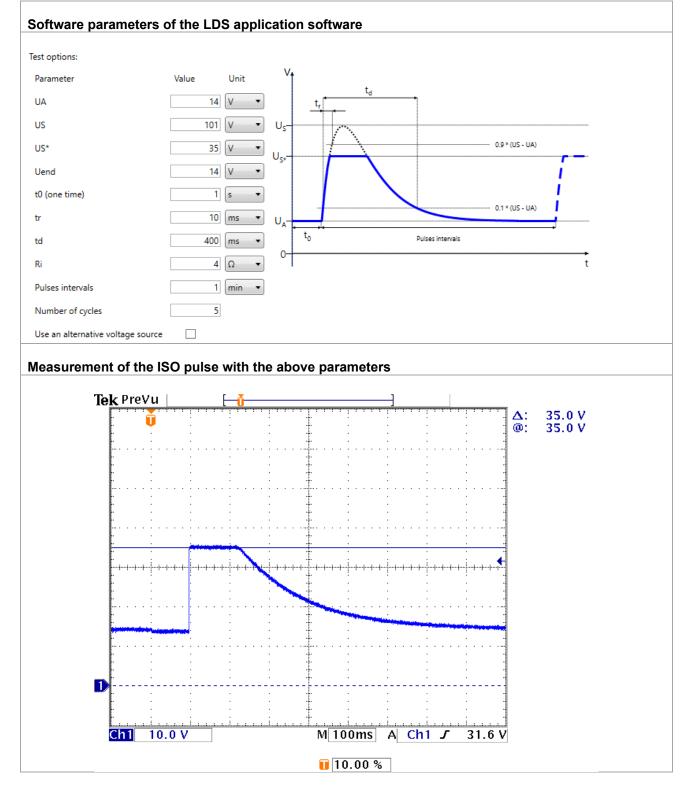


ISO 16750-2: 4.6.4.2.2 LOAD DUMP TEST WITHOUT CENTRALIZED SUPPRESSION





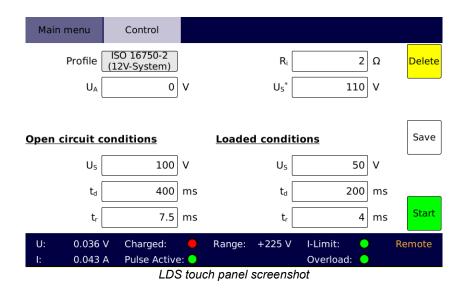
ISO 16750-2: 4.6.4.2.3 LOAD DUMP TEST WITH CENTRALIZED SUPPRESSION





TECHNICAL DATA

Туре	LDS 100		LDS 200
Idle output voltage	U _{0,max} : 250V		
Pulses			
Pulse width	t _{dmax} : 0.4F*R _i (load condition)		
Max. energy	W _{max} : U ₀ ^{2*} 22mF		
Repetition rate	min. 10s		
Source resistance	0.4Ω 12.5Ω		
Integrated suppressor network	integrated adjustable diode suppression network		
Battery supply			
Max. voltage	70V		70V
Cont. current	100A		200A
Interface	Ethernet 100M		
Power supply			
Supply voltage	230V (±10%, 50Hz 60Hz)		
Contactor type	safety-plug		
Ambient temperature	0°C +40°C		
Housing	19"-plug-in unit (7U), colour light grey (RAL 7035)		
Dimensions (mm)	approx. 267x483x700		
Weight	approx. 60kg		



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