

## ABBREVIATIONS, LIMIT VALUES 990 ADVENTURE

Abbreviation	Description	Min. limit value	Max. limit value	Unit	Remarks
THAD	Throttle valve sensor voltage	0.3	4.5	volts	Completely closed 0.56-0.64 V
ATP	Throttle valve sensor signal	0	75-85	degrees	
PM1AD	Manifold air pressure, rear voltage	1	4.2	volts	
PM1M	Manifold air pressure, rear	13.3	119.99	KPa	Idle, engine min.80°C: 36-40KPa
PAAD	Ambient air pressure sensor voltage	1	4.2	volts	
PA	Ambient pressure	13.3	119.99	KPa	
VBAT	Battery voltage	6.5	16	volts	
TWAD	Coolant temperature voltage	4.551	0.2	volts	
TW	Coolant temperature	-20	140	°C	
TAAD	Air temperature voltage	4.629	0.288	volts	
TA	Air temperature	-20	120	°C	
HEGO1AD	Lambda probe, rear voltage	0	5	volts	rich: 0.8 V; lean: 0.1 V
HEGO2AD	Lambda probe, front voltage	0	5	volts	rich: 0.8 V; lean: 0.1 V
PM2AD	Manifold air pressure, front voltage	1	4.2	volts	
PM2M	Manifold air pressure, front	13.3	119.99	KPa	Idle, engine 80°C: 37-43KPa
TAPAD	2nd throttle valve voltage	0.3	4.5	volts	closed:1V; open: 4.3V
SidestandAD	Side stand switch voltage	1	5	volts	Side stand up: 1-3 volts side stand down 4-5 volts Short circuit 0-1 volts
RolloverAD	Roll angle sensor voltage	0.4-1.4	3.7-4.1	volts	Normal operation: 0.4-1.4 volts Crash detected: 3.7-4.1 volts Error: <0.352, >4.8 volts Cable break: 2-3 volts
MIL	FI lamp	on	off	-	
NCS	Number of errors influencing exhaust gas	0	40	-	Number of codes
Neutral	Neutral switch voltage	max. 3.31 V (on)	min. 4.14 V (off)	volts	on: idle/no gear engaged off: random gear engaged
Clutch	Clutch switch voltage	actuated max. 3.31 V	not actuated min. 4.14 V	volts volts	Actuated: clutch pulled Not actuated: clutch disengaged
Side stand GP2	Side stand switch voltage Switch for 2nd gear voltage	down (folded down) max. 3.31 V (on)	up (folded up) min. 4.14 V (off)	volts volts	on: 2nd gear engaged
Rollover	Roll angle sensor	Normal	Crash detected		
GP3	Switch for 3rd gear voltage	max. 3.31 V (on)	min. 4.14 V (off)	volts	on: 3rd gear engaged
FLPR	Fuel pump relay	on	off	-	
HGHT1	Lambda probe heater, rear	on	off	-	13 Ohm at 20°C
HGHT2	Lambda probe heater, front	on	off	-	13 Ohm at 20°C
EXAI	SLS (Secondary air system)	Valve open	Valve closed	-	20 Ohm at 20°C
NE	Engine speed	0	9600	rpm	
MHG1	Mixture correction 1	0.65	1.25	-	
CLV	Calculated load value	0	100	%	
NETRG	Desired idle speed	-	-	rpm	1450 rpm, Tw min.80°C
MHG2	Mixture correction 2	0.65	1.25	-	
TIOUT1	Injection valve, rear Opening time	0	20.25	msec	
TIOUT2	Injection valve, front Opening time	0	20.25	msec	
IGLOG1	Ignition timing, rear	0	54	° BTDC	
IGLOG2	Ignition timing, front	0	54	° BTDC	
IGDWELL1	Dwell angle, rear	0.966	4.000	msec	
IGDWELL2	Dwell angle, front	0.966	4.000	msec	
THREF	Throttle reference value	13.8	20	°	Normal value: 15-17°
DTHREF	Throttle voltage reference value	0	1	volts	Normal value: 0,4-0,5 V
MREFHG1	Mixture correction reference value 1 general	0.95	1.05	-	
MREFHG1ID	Mixture correction reference value 1 idle	0.95	1.05	-	
MREFHG2	Mixture correction reference value 2 general	0.95	1.05	-	
MREFHG2ID	Mixture correction reference value 2 idle	0.95	1.05	-	
ISCSTEP	Idle speed control motor, actual	0	700	steps	
OSTEP	Idle speed control motor set-point value	0	700	steps	
2ndTHAngle	2nd throttle valve, actual steps	0	100	%	0 % in idle
STHTRG	2nd throttle valve set-point value steps	0	100	%	0 % in idle
STHADLL	Min. initialization voltage 2nd throttle sensor	0.518	1.2	volts	Normal: approx.1V; Error: 0.518V
STHADHH	Max. initialization voltage 2nd throttle sensor	3.799	4.5	volts	Normal: approx.4.3V; Error: 3.799V