

Table of the Configuration Variables

CV Addr. Range 1	CV Addr. Range 2	CV Addr. Range 3	Description	Allowable Values	Factory Settings
897	897	897	<b>SUSI address range</b> 1 = from 900 to 939 2 = from 940 to 979 3 = from 980 to 1019	1 - 3	1
900	940	980	<b>Manufacturer ID</b>	-	85
901	941	981	<b>Software version</b>	-	different
902	942	982	<b>Speaker volume</b>	50 - 200	192
903	943	983	<b>function activates sound „x“ (x = value of the CV)</b> x = 0 no sound is produced x = 1 bell or horn # 2 x = 2 whistle or horn #2 x = 3 motor (driving) sound x = 4 uncoupling or door warning sound x = 5 conductor whistle short x = 6 station announcement x = 8 fade in/out all sounds x = 9 Pantograph (electric locos only) x = 11 Announcing departure x = 12 Conductor whistle long x = 14 Coal shoveling / door closing tone x = 15 Pump / air compressor x = 16 Warning tone x = 17 Blowing / n/a x = 18 Vibrating stoker / n/a x = 95 Steam generator constantly maximum x = 96 Steam generator constantly off x = 97 Function brake noise off x = 98 Manual fan noise function (electric locos only) x = 99 Starting noise manual (steam locos only) x = 200 custom Sound x = 201 custom Sound x = 202 custom Sound x = 203 custom Sound	0 - 18 95 - 99 200 - 203	0
904	944	984	<b>f1 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	3
905	945	985	<b>f2 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	2
906	946	986	<b>f3 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	4
907	947	987	<b>f4 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	1
908	948	988	<b>f5 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	16
909	949	989	<b>f6 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	6
910	950	990	<b>f7 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
911	951	991	<b>f8 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	8
912	952	992	<b>f9 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	5
913	953	993	<b>f10 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
914	954	994	<b>f11 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	15
915	955	995	<b>f12 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
916	956	996	<b>f13 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	11
917	957	997	<b>f14 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	14
918	958	998	<b>f15 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
919	959	999	<b>f16 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	12
920	960	1000	<b>f17 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	9
921	961	1001	<b>f18 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
922	962	1002	<b>f19 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
923	963	1003	<b>f20 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
924	964	1004	<b>f21 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
925	965	1005	<b>f22 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
926	966	1006	<b>f23 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0

927	967	1007	<b>f24 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
928	968	1008	<b>f25 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
929	969	1009	<b>f26 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
930	970	1010	<b>f27 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
931	971	1011	<b>f28 activates sound „x“</b> where „x“ is defined as per CV903/943/983	s.o.	0
934	974	1014	<b>Threshold for electric fan of electric locos</b> 255 = no fan noise	0 - 255	200
935	975	1015	<b>Configuration</b> Bit 0 = 0 Chuff steam loco only by reed switch Bit 0 = 1 Chuff steam loco automatic and by reed switch 1 Bit 1 = 1 Pause before repeat of whistle 2 Bit 2 = 1 Chuffs halved 4 Bit 4 = 0 Fire box flickering Bit 4 = 1 Output Fire box while fireman shoveling 16 Bit 6 = 1 Change fader time to 8 seconds and automatically on at power on 64 Bit 7 = 0 The end step is always on Bit 7 = 1 The end step is off when the sound off 128	Value 0 - 195	129
936	976	1016	<b>Threshold for brake squeal sound</b> 255 = no brake squeal	10 - 255	80
937	977	1017	<b>Idle running in Seconds</b> 0 = idle running off 255 = idle running constantly on	0 - 255	15
938	978	1018	<b>Time between chuffs</b> at maximum loco speed without contact	0 - 100	0
939	979	1019	<b>Time between chuffs</b> at minimum loco speed without contact	50 - 255	230
1021	1061	1101	<b>Setting of the Bank to program</b> for all following settings = 1 (Bank A)	0, 1	0
<b>Following Expert CVs (Bank A) only are programmable when CV 1021 is set to 1. After Programming Bank A set CV 1021 to 0 !</b>					
900 A	940 A	980 A	Hardware version (Product ID)	-	-
901 A	941 A	981 A	Additional information for hardware / software version	-	255
903 A	943 A	983 A	relative sound volume for custom sound no. 200	25 - 255	128
904 A	944 A	984 A	relative sound volume for custom sound no. 201	25 - 255	128
905 A	945 A	985 A	relative sound volume for individual sound no. 202	25 - 255	128
906 A	946 A	986 A	relative sound volume for individual sound no. 203	25 - 255	128
922 A	962 A	1002 A	speed step for curve squeal sound starting	0 - 127	16
923 A	963 A	1003 A	speed step for curve squeal sound ending	0 - 127	48
924 A	964 A	1004 A	<b>Special function of externe input for electric and diesel locos for curve squeal sound can be swithed off</b> Values = 0-28 functions f0 - f28 Value = 31 curve squeal sound constantly activ	0 - 28 31	31
925 A	965 A	1005 A	<b>Special function for switching off the dead time in CV 926 A</b> Values 0-28 functions f0 - f28 Value = 31 no switch off	0 - 28 31	31
926 A	966 A	1006 A	<b>Delay for taking off</b> in steps of 32ms (30 = 1 sec, 254 = 8,13 sec. 0 = no, 255 = off (dead time than sound is controlled)	0 - 254	255
927 A	967 A	1007 A	For steam locos: load time acceleration triggered	5 - 20	5
928 A	968 A	1008 A	For steam locos: load time increase in load triggered	5 - 20	5
929 A	969 A	1009 A	Steam output (SA1) at stop with sound on 0 - 100 %	0 - 100	20
930 A	970 A	1010 A	Steam output (SA1) running with sound on 0 - 100 %	0 - 100	80
931 A	971 A	1011 A	Steam output (SA1) in idle speed with sound on 0 - 100 %	0 - 100	35
932 A	972 A	1012 A	Steam output (SA1) at take-off with sound on 0 - 100 % During delay (CV 926 A) an connected steam generator will be preheated to this value.	0 - 100	100
<b>The following settings for automatically triggered Sounds when driving off</b>					
933 A	973 A	1013 A	Timeout for automatic triggering of sound no. 16 0 = always 255 = never	0 - 255	255
934 A	974 A	1014 A	Dead time of automatic sound function 99 (stake off hissing) 0 = ex 1 sec., 255 = never	0 - 255	90
<b>Following settings for dynamic sound reactions</b>					
935 A	975 A	1015 A	Recognition "faster"	120 - 138	131
936 A	976 A	1016 A	Recognition "slower"	120 - 138	125
937 A	977 A	1017 A	<b>Sensitivity to load regulation</b> 1 = reacts really fast to 8 = reacts very slowly	1 - 8	6
938 A	978 A	1018 A	<b>Trigger threshold with Motor load increase</b> 128 = Tone change with load increase switched off	0 - 128	3
939 A	979 A	1019 A	<b>Trigger threshold with Motor load decrease</b> 128 = Tone change with load decrease switched off	0 - 128	3