

Smarter AI Telematics CAN Bus Labels

A list of all CAN Bus Labels supported by Smarter AI for different CAN Bus protocols can be found below:

J1939 CAN Bus Labels	
Label	Description
A_CHighPressFanSwitch	Air conditioning high-pressure fan switch
AccelPedal1LowIdleSwitch	Low idle switch for accelerator pedal 1
AccelPedal2LowIdleSwitch	Low idle switch for accelerator pedal 2
AccelPedalKickdownSwitch	Kickdown switch for accelerator pedal
AccelPedalPos1	Position of accelerator pedal 1
ActiveShiftConsoleIndicator	Indicator for active shift console
ActualEngPercentTorque	Actual engine percent torque
ActualRetarderPercentTorque	Actual retarder percent torque
Aftertreatment1ExhaustDewPoint	Dew point temperature at aftertreatment 1 exhaust
Aftertreatment1IntakeDewPoint	Dew point temperature at aftertreatment 1 intake
Aftertreatment2ExhaustDewPoint	Dew point temperature at aftertreatment 2 exhaust
Aftertreatment2IntakeDewPoint	Dew point temperature at aftertreatment 2 intake
AmberWarningLampStatus	Status of amber warning lamp
BatteryPotential_PowerInput1	Battery potential at power input 1
BrakeSwitch	Status of the brake switch
CTITireStatus	Central tire inflation tire status
CTIWheelEndElectricalFault	Electrical fault status at wheel end for CTI
CTIWheelSensorStatus	Status of wheel sensor for CTI
ClutchSwitch	Status of the clutch switch
CruiseCtrlAccelerateSwitch	Cruise control accelerate switch
CruiseCtrlActive	Status of active cruise control
CruiseCtrlCoastSwitch	Cruise control coast switch
CruiseCtrlEnableSwitch	Cruise control enable switch
CruiseCtrlPauseSwitch	Cruise control pause switch
CruiseCtrlResumeSwitch	Cruise control resume switch

CruiseCtrlSetSpeed	Set speed for cruise control
CruiseCtrlSetSwitch	Cruise control set switch
CruiseCtrlStates	States of the cruise control system
DPFThermalManagementActive	Status of DPF thermal management
DTC1	Diagnostic Trouble Code 1
DTC2	Diagnostic Trouble Code 2
DTC3	Diagnostic Trouble Code 3
DTC4	Diagnostic Trouble Code 4
DTC5	Diagnostic Trouble Code 5
DriversDemandEngPercentTorque	Driver's demand for engine percent torque
EngAirShutoffCmdStatus	Engine air shutoff command status
EngAirShutoffStatus	Status of engine air shutoff
EngAlarmAcknowledge	Engine alarm acknowledge status
EngAlarmOutputCmdStatus	Engine alarm output command status
EngAverageFuelEconomy	Average fuel economy of the engine
EngCoolantLevel	Coolant level in the engine
EngCoolantLoadIncrease	Coolant load increase status
EngCoolantTemp	Coolant temperature in the engine
EngDemandPercentTorque	Engine demand percent torque
EngFuelRate	Fuel rate for the engine
EngIdleShutdownHasShutdownEngine	Status if engine has shut down due to idle shutdown
EngIdleDecrementSwitch	Engine idle decrement switch
EngIdleIncrementSwitch	Engine idle increment switch
EngIdleShutdownDriverAlertMode	Engine idle shutdown driver alert mode
EngIdleShutdownTimerFunction	Function of the engine idle shutdown timer
EngIdleShutdownTimerOverride	Override status of the engine idle shutdown timer
EngIdleShutdownTimerState	State of the engine idle shutdown timer
EngInjectionCtrlPress	Engine injection control pressure
EngInstantaneousFuelEconomy	Instantaneous fuel economy of the engine
EngIntakeManifold1Press	Intake manifold pressure for the engine
EngIntakeManifold1Temp	Intake manifold temperature for the engine
EngMomentaryOverspeedEnable	Engine momentary overspeed enable status
EngOilPress	Oil pressure in the engine
EngOverspeedTest	Engine overspeed test status

EngPercentLoadAtCurrentSpeed	Engine percent load at current speed
EngProtectionSystemConfig	Configuration of the engine protection system
EngProtectionSystemTimerState	Timer state of the engine protection system
EngPrctcnSystmApprchngShutdown	Engine protection system approaching shutdown status
EngPrctcnSystmHasShutdownEngine	Status if engine has shut down due to protection system
EngPrctcnSystmTimerOverride	Override status of the engine protection system timer
EngShutdownOverrideSwitch	Engine shutdown override switch
EngSpeed	Speed of the engine
EngStarterMode	Starter mode of the engine
EngTestModeSwitch	Engine test mode switch
EngTorqueMode	Torque mode of the engine
EngWaitToStartLamp	Wait to start lamp status for the engine
EngDesiredOperatingSpeed	Engine's desired operating speed
FlashAmberWarningLamp	Flash amber warning lamp status
FlashMalfuncIndicatorLamp	Flash malfunction indicator lamp status
FlashProtectLamp	Flash protect lamp status
FlashRedStopLamp	Flash red stop lamp status
GPIO	General-purpose input/output status
MalfunctionIndicatorLampStatus	Status of the malfunction indicator lamp
MmntyEngMaxPowerEnableFeedback	Momentary engine max power enable feedback
MomentaryEngMaxPowerEnable	Momentary engine max power enable status
NominalFrictionPercentTorque	Nominal friction percent torque
PTOGovernorState	Power take-off governor state
PTOShutdownHasShutdownEng	Status if engine has shut down due to PTO
ParkBrakeReleaseInhibitRq	Park brake release inhibit request
ParkingBrakeSwitch	Status of the parking brake switch
ProgressiveShiftDisable	Progressive shift disable status
ProtectLampStatus	Protect lamp status
RedStopLampState	Red stop lamp state
ReferenceTirePress	Reference tire pressure
ReferenceTirePressSetting	Reference tire pressure setting
RefrigerantHighPressSwitch	Refrigerant high-pressure switch

RefrigerantLowPressSwitch	Refrigerant low-pressure switch
RetarderEnableBrakeAssistSwitch	Retarder enable brake assist switch
RetarderEnableShiftAssistSwitch	Retarder enable shift assist switch
RetarderRoadSpeedExceededStatus	Retarder road speed exceeded status
RetarderRoadSpeedLimitSwitch	Retarder road speed limit switch
RetarderRqingBrakeLight	Retarder requesting brake light status
RetarderTorqueMode	Retarder torque mode
RoadSpeedLimitStatus	Road speed limit status
SCRThermalManagementActive	SCR thermal management active status
ServiceComponentIdentification	Service component identification
ServiceComponentIdentificationA	Service component identification A
ServiceDistance	Service distance
SrcAddrssOfCtrlIngDvcFrEngCntrl	Source address of controlling device for engine control
SrcAddrssOfCtrlIngDvcFrRtrdrCntr	Source address of controlling device for retarder control
SrcAddrssOfCtrlIngDvcFrTrnsCntrl	Source address of controlling device for transmission control
SrvceDelay_OperationalTimeBased	Service delay operational time-based
TireAirLeakageRate	Tire air leakage rate
TirePress	Tire pressure
TirePressThresholdDetection	Tire pressure threshold detection
TireTemp	Tire temperature
TrailerWeight	Trailer weight
TransActualGearRatio	Actual gear ratio of the transmission
TransCurrentGear	Current gear of the transmission
TransDrivelineEngaged	Transmission driveline engaged status
TransEngCrankEnable	Transmission engine crank enable status
TransMode1Indicator	Transmission mode 1 indicator
TransMode2Indicator	Transmission mode 2 indicator
TransMode3Indicator	Transmission mode 3 indicator
TransMode4Indicator	Transmission mode 4 indicator
TransMode5Indicator	Transmission mode 5 indicator
TransMode6Indicator	Transmission mode 6 indicator
TransMode7Indicator	Transmission mode 7 indicator

TransMode8Indicator	Transmission mode 8 indicator
TransOilLevelCountdownTimer	Transmission oil level countdown timer
TransOilLevelMeasurementStatus	Transmission oil level measurement status
TransOilTemp	Transmission oil temperature
TransOutputShaftSpeed	Transmission output shaft speed
TransReadyForBrakeRelease	Transmission ready for brake release status
TransRqedRangeDisplayBlankState	Requested range display blank state for transmission
TransRqedRangeDisplayFlashState	Requested range display flash state for transmission
TransSelectedGear	Selected gear of the transmission
TransServiceIndicator	Transmission service indicator
TransShiftInProgress	Transmission shift in process
TransShiftInhibitIndicator	Transmission shift inhibit indicator
TransWarningIndicator	Transmission warning indicator
TrnsCrrntRangeDisplayBlankState	Current range display blank state for transmission
TrnsRvrseGearShiftInhibitStatus	Reverse gear shift inhibit status for transmission
TrnsTrqCnvtrLckpTrnstnInPrcess	Torque converter lockup transition in process for transmission
TrnsTrqueConverterLockupEngaged	Torque converter lockup engaged for transmission
TwoSpeedAxleSwitch	Two-speed axle switch
VhclAccelerationRateLimitStatus	Vehicle acceleration rate limit status
WheelBasedVehicleSpeed	Wheel-based vehicle speed

OBDII CAN Bus Labels	
Label	Description
MONITOR_STATUS	Monitor status of the vehicle
FUEL_SYSTEM_STATUS	Fuel system status
ENGINE_LOAD	Engine load
COOLANT_TEMP	Coolant temperature
SHORT_FUEL_TRIM_BANK_1	Short-term fuel trim for bank 1
LONG_FUEL_TRIM_BANK_1	Long-term fuel trim for bank 1
FUEL_PRESSURE	Fuel pressure
MAP	Manifold absolute pressure
ENGINE_SPEED	Engine speed (RPM)
ENGINE_ROAD_SPEED	Engine road speed
TIMING_ADVANCE	Timing advance
DOC_INTAKE_GAS_TEMP	Diesel oxidation catalyst intake gas temperature
MAF	Mass air flow
THROTTLE_POSITION	Throttle position
OXY_SENSOR_1_VOLT	Oxygen sensor 1 voltage
OXY_SENSOR_3_VOLT	Oxygen sensor 3 voltage
TIME_SINCE_ENGINE_START	Time since engine start
FUEL_RAIL_PRESSURE	Fuel rail pressure
FUEL_RAIL_GAUG	Fuel rail gauge pressure
OXY_SENSOR_1_FAER	Oxygen sensor 1 fuel-air equivalence ratio
OXY_SENSOR_2_FAER	Oxygen sensor 2 fuel-air equivalence ratio
OXY_SENSOR_5_FAER	Oxygen sensor 5 fuel-air equivalence ratio
CMD_EVAP_PURGE	Commanded evaporative purge
FUELTANK1_PERCENT	Fuel tank level percentage
WARMUP_SINCE_CODE_CLEAR	Warm-ups since diagnostic trouble codes were cleared
DINSTANCE_SINCE_CODE_CLEAR	Distance traveled since diagnostic trouble codes were cleared
EVAP_SYS_VAPOUR_PRESSURE	Evaporative system vapor pressure
ABS_BAROMETER_PRESSURE	Absolute barometric pressure
OXY_SENSOR_3_FAER	Oxygen sensor 3 fuel-air equivalence ratio
OXY_SENSOR_4_FAER	Oxygen sensor 4 fuel-air equivalence ratio

CAT_TEMP_BANK_2_SENSOR_2	Catalytic converter temperature bank 2 sensor 2
STATE_OF_CHARGE	State of charge of the battery
ABS_LOAD_VALUE	Absolute load value
FUEL_AIR_CMD_EQUIV	Fuel-air commanded equivalence ratio
ACCEL_PEDAL_PERCENTAGE	Accelerator pedal position percentage
AMBIENT_AIR_TEMP	Ambient air temperature