MASTEREAN DAC

J1939 i/o modules

Digitalize analog signals of machinery instruments and transfer them to telematics system. Allow telematics system controlling analog devices and instruments of machinery via CAN j1939 and ISObus messages.



Configuration

Analog inputs and outputs: selecting type (voltage/frequency/pulse/discrete/resistive) and range of values. Saving calibration table (e.g. for tank fuel volume measurement or axle load measurement) in module's memory. CAN j1939/S6 digital interface: selecting input message for converting to analog signal or output message to be converted from analog signal. Choice of 10,000+ machinery operation Parameters from embedded S6 Database. Setting up network address and frequency of sending messages over CAN j1939/S6 interface.

Technologies







		MasterCAN DAC15		MasterCA	N DAC2113
Signal types	Value	Inputs, pcs.	Outputs, pcs.	Inputs, pcs.	Outputs, pcs.
CAN j1939/S6 interface		1	1	1	1
Resistive	0.015 50 kOhm	-	1	2	1
Voltage	0.5 9 V	1	1	4	2*
Frequency	0.01 10 kHz	1	1	2	2
Pulse	0.5 9 B / 40 250 ms	-	1	-	-
Current	4 20 mA	-	1	1	1
Discrete		-	2	12	7
combined voltage/frequency input	combined voltage/frequency/pulse output * voltage value 0.5 10 V				



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MASTERCAN Display 35



Visual monitoring of machinery operation parameters

- Automatic scanning and parsing of CAN J1939 and ISOBUS messages
- Possibility to parse and display proprietary CAN J1939/71 messages
- Conversion of analog signals to CAN-messages
- Displays up to 402 machinery operation parameters
- Flexible settings of parameters display





RPM, coolant and oil temperature, oil temperature.

Volume and temperature of fuel in tanks, fuel consumption by each engine.

Engine operation mode, engine operation time in each mode.

Axle load, pressure in air suspension system.

Active engine failures and DTCs of ECUs.

f

Total 10,000+ parameters from CAN, ISOBUS, S6 and analog sensors are available for display.

Data sources, which can be simultaneously connected to MasterCAN Display:

- standard automotive **CAN** bus (road vehicles, construction equipment)
- · ISOBUS of agricultural machinery and equipment
- \cdot up to 16 fuel level sensors and up to 16 fuel flow meters
- 2 analog sensors, e.g. axle load sensors
- $\boldsymbol{\cdot}$ telematics unit with CAN-interface
- \cdot up to 42 analog sensors via MasterCAN DAC I/O module







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RS2CAN and CAN2RS data converters





MasterCAN RS2CAN and CAN2RS converters are consolidating Modbus data from RS-485/232 interfaces and CAN j1939/S6 Telematics interface into a single telematics network. Converts 100 parameters from/to Modbus.















Data converters are used in complex machinery telematics systems – for vehicles, stationary equipment, power generators, industrial machinery

Features

- User can select input and output data (CAN messages to Modbus registers).
- ✓ Configuration of CAN and RS-485/232 interfaces' baud rate.
- ✓ Automatic CAN j1939/71 scanning and parsing.
- MasterCAN CAN2RS can be operated in active (sending requests) and in sniffer modes within CAN interface.

Specifications				
Supply voltage	10 45 V			
Current consumption (24 V / 12 V)	50/100 mA			
Ambient temperature	–40 +85 °C			
MasterCAN RS2CAN, control mode in RS-485/232	Master			
MasterCAN CAN2RS, control mode in RS-485	Slave			

MasterCAN RS2CAN interfaces

Input – RS-485 and RS-232, protocol Modbus RTU Output – CAN 2.0, protocol j1939 + S6

MasterCAN CAN2RS interfaces

Input – CAN 2.0, protocol j1939 + S6 Output – RS-485, protocol Modbus RTU



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MASTEREAN Tool

CAN J1939/S6 Simulator-Analyzer



MasterCAN Tool – instrument for professionals in telematics systems integration and electronic unit diagnostics and developers of automotive electronics.

Functions and advantages

Displaying current values of parameters in decimal and HEX formats.

Displaying current values of parameters in decimal and HEX formats.

Recording values of parameters to a file (logging).

Specifying values of individual parameters and groups for broadcasting to CAN bus (parameter imitation).

Select in 11/29 bit length of identifiers during imitation.

Configurable send/receive data baud rate - 100/125/250/500/1000 kbit/s.

Simple and easy connection to CANbus with CANCrocodile contactless reader.

CAN terminal resistor switch in firmware.

CAN bus load indicator.

Power supply from USB of PC or vehicle's onboard electrical network.

sterCAN Tool Pro v 4.0										
Configurate Language Firmware										
Serial number: 11111111111 mware version: 1					M	\ST E		łC		N
mitator Monitor RAW		0								
SPN Name 🛛 🗸	SPN	Specifiers	Partition	Measure	Value	PGN	SA	DA	Priority	Counter
ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
CAN_PING (TEST)	1010101				CAN_PING	1 / 1	33	0	0	1
Fuel Tank Level	521023	Filtering	S6	mm	4.7/2F	62982 / F606	102	0	6	142
Fuel Tank Volume	521024	Filtering	S6	L	15.4 / 9A	62982 / F606	102	0	6	142
Tank Fuel Rate	521025	-	S6	L/h	3276.75 / FFFF	62982 / F606	102	0	6	142
Engine Fuel Temperature 1	174	-	S6	۹C	25 / 41	62982 / F606	102	0	6	142
Reserved_8	524000	2	S6	2	0/0	62982 / F606	102	0	6	142
Keyswitch Battery Potential	158	-	S6	v	24.3 / 1E6	62987 / F60B	102	0	6	128
Ignition Key State	521049	-	S6	-	1/1	62987 / F60B	102	0	6	128

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Automotive

CAN bus imitation

MasterCAN vehicle data interface

ADVANCED FUEL TELEMATICS

Full range of vehicle operational data in a friendly format

- CAN bus (SAE J1939) and J1708 bus (SAE J1587) data reading;
- Selection of parameters and arranging them into messages easy to read and process on telematics terminals;
- CAN, RS-232, RS-485 output messages; .
- Reading and totalizing data of several DUT-E CAN fuel level sensors and sending corresponding output message.
- Direct power supply.
 - Telematics message
 - FMS message
 - SAE J1939/71 message \sim

Purpose

Supply voltage, V	1050
Current consumption, mA	≤ 100
Operating temperature, °C	-40+85
Protection class	IP40

Telematics

Models

Telematics messages contain most essential vehicle operation parameters:

- engine speed
- instant fuel consumption
- trip fuel consumption
- engine temperature
- oil pressure
- engine torque

- coolant level
- oil level
- outdoor temperature
- fuel level
- used fuel
- engine operating time

Model	Input interface (protocol)	Output interface (protocol)			
MasterCAN CC	CAN (SAE J1939/71)	CAN 2.0B (SAE J1939/71)*			
MasterCAN C 232/485	CAN (SAE J1939/71)	RS-232/RS-485 (ASCII/Modbus/DUT-E COM)*			
MasterCAN V-GATE	CAN (SAE J1939/71) and J1708 (SAE J1587)	CAN 2.0B (SAE J1939/71)* and RS-232 (ASCII/Modbus/DUT-E COM)*			

* The list of messages and parameters should be specified separately

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