

TECHNICAL BULLETIN

TB-546: CAN SAE J1939 Interface and Process Data

Interface	CAN
CAN physical layer	ISO 11898 (High Speed CAN)
Protocol	ISO 11898 (High Speed CAN)
Baud Rate	Auto-Baud-Detection
Standard Preset Configuration	(other configurations on request)
Direction of counting	CCW (as viewed from mounting face)
ECU-adress	0x0A
Process data Identifier	0x18FF000A
PGN	0xFF00
Process Data Mapping	Byte 0-3 32 Bit Position Value Byte 4 8 Bit Error Register PDU Timer and Position Preset can be adjusted by PGN configuration 0xEF00 (Prop. A)
PDU - Time	50 ms (default)
Configuration - PGN	0xEF 00 (Prop. A)
Byte 0	0x01
Byte 1	0xFF
Byte 2	PDU Time LSB
Byte 3	PDU Time MSB
Byte 4	Preset LSB
Byte 5, 6	Preset
Byte 7	Preset MSB



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Transmit List

CAN-ID	Type	Length	Data	Comment
18EF0A01	0	8	01 FF 32 00 FF FF FF FF	PGN EF00; PGN EF00; DA=x0A; Set PDU cycle time = 0x0014 (20ms)
18EF0A01	0	8	01 FF 32 00 FF FF FF FF	PGN EF00; DA=x0A; Set PDU cycle time = 0x0032 (50ms)
18EF0A01	0	8	01 FF E8 03 FF FF FF FF	PGN EF00; DA=x0A; Set PDU cycle time = 0x03E8 (1000ms)
18EF0A01	0	8	01 FF F4 01 FF FF FF FF	PGN EF00; DA=x0A; Set PDU cycle time = 0x01F4 (500ms)
18EF0A01	0	8	04 0B FF FF FF FF FF FF	PGN EF00; DA=x0A; New ECU addr. = 0x0B
18EF0A01	0	8	AA FF FF FF FF FF FF FF	PGN EF00; DA=x0A; Soft reset
18EF0B01	0	8	04 0A FF FF FF FF FF FF	PGN EF00; DA=x0B; New ECU addr. = 0x0A
18EF0B01	0	8	AA FF FF FF FF FF FF FF	PGN EF00; DA=x0B; Soft reset
18EF0A01	0	8	01 FF FF FF 00 00 00 00	PGN EF00; DA=x0A; Preset to 0
18EF0A01	0	8	05 00 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 0 (1000k)
18EF0A01	0	8	05 01 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 1 (800k)
18EF0A01	0	8	05 02 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 2 (500k)
18EF0A01	0	8	05 03 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 3 (250k)
18EF0A01	0	8	05 04 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 4 (125k)
18EF0A01	0	8	05 05 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 5 (100k)
18EF0A01	0	8	05 06 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 6 (50k)
18EF0A01	0	8	05 07 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 7 (20k)
18EF0A01	0	8	05 08 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 8 (10k)
18EF0A01	0	8	05 09 FF FF FF FF FF FF	PGN EF00; DA=x0A; Set Bitrate = 9 (Auto)
18EF0A01	0	8	06 FF FF 01 00 FF FF FF	PGN EF00; DA=x0A; Set MUPR (LSB...MSB)
18EF0A01	0	8	07 FF FF FF FF FF FF FF	PGN EF00; DA=x0A; Set TMR (LSB...MSB)
18EF0A01	0	8	08 04 FF FF FF FF FF FF	PGN EF00; DA=x0A Set DIR =CW
18EF0A01	0	8	08 05 FF FF FF FF FF FF	PGN EF00; DA=x0A Set DIR =CCW