

CANTCU Default CAN Datastream v1.0

- **Activation, Base ID** and **CAN speed** are configurable
- CAN2.0B, Standard 11bit identifiers
- All 16 bit values are **Little Endian**

Rate	CAN ID	Type	Offset	Realtime variable	Unit	Factor	Value Mapping
50 Hz	Base	UINT16	0	Engine RPM	RPM	1	
50 Hz	Base	UINT16	16	TCU Input RPM	RPM	1	
50 Hz	Base	UINT16	32	TCU Output RPM	RPM	1	
50 Hz	Base	UINT8	48	TPS Value	%	1	
50 Hz	Base	UINT8	56	Brake Switch	0/1	1	0=not pressed, 1=pressed
50 Hz	Base+1	INT16	0	Engine Torque	Nm	1	
50 Hz	Base+1	INT16	16	Target Torque	Nm	1	
50 Hz	Base+1	UINT8	32	Shift In Progress	0/1	1	0=not active, 1=active
50 Hz	Base+1	UINT8	40	TCU Intervention	0/1/2	1	0=not active, 1=blip, 2=shiftcut
50 Hz	Base+1	UINT8	48	Shiftcut %	%	1	
50 Hz	Base+1	UINT8	56	Blip %	%	1	
20 Hz	Base+2	UINT16	0	(Driven) Wheel Speed	km/h	1	
20 Hz	Base+2	INT8	16	TCU Gear	-3 to 8	1	-3=N, -2=R, -1=P, 0=Invalid, 1-8=Forward Gears
20 Hz	Base+2	UINT8	24	Shifter Status		1	various values depending on shifter
20 Hz	Base+2	UINT8	32	Clutch Slip %	%	1	
20 Hz	Base+2	UINT8	40	Converter Slip %	%	1	

Rate	CAN ID	Type	Offset	Realtime variable	Unit	Factor	Value Mapping
20 Hz	Base+2	UINT8	48	Paddle Up	0/1	1	0=not pressed, 1=pressed
20 Hz	Base+2	UINT8	56	Paddle Down	0/1	1	0=not pressed, 1=pressed
10 Hz	Base+3	UINT8	0	DIN1	0/1	1	0=not active, 1=active
10 Hz	Base+3	UINT8	8	DIN2	0/1	1	0=not active, 1=active
10 Hz	Base+3	UINT8	16	DIN3	0/1	1	0=not active, 1=active
10 Hz	Base+3	UINT8	24	DIN4	0/1	1	0=not active, 1=active
10 Hz	Base+3	UINT8	32	DOUT1	0/1	1	0=not active, 1=active
10 Hz	Base+3	UINT8	40	DOUT2	0/1	1	0=not active, 1=active
10 Hz	Base+3	UINT8	48	DOUT3	0/1	1	0=not active, 1=active
10 Hz	Base+3	UINT8	56	DOUT4	0/1	1	0=not active, 1=active
10 Hz	Base+4	UINT16	0	AIN1	0-5V	0,001	
10 Hz	Base+4	UINT16	16	AIN2	0-5V	0,001	
10 Hz	Base+4	UINT16	32	AIN3	0-5V	0,001	
10 Hz	Base+4	UINT16	48	AIN4	0-5V	0,001	
10 Hz	Base+5	UINT16	0	Last Shift Time	ms	1	
10 Hz	Base+5	INT8	16	TCU Oil Temp	C	1	
10 Hz	Base+5	UINT8	24	TCU Drive Mode		1	0=Drive, 1=Sport, 2=Manual
10 Hz	Base+5	UINT8	32	TCU DL / Car Drive Mode		1	DCT: DriveLogic 1-5, 8HP: Car Drive Mode 0-3
10 Hz	Base+5	UINT8	40	Launch Active	0/1	1	0=not active, 1=active
10 Hz	Base+5	UINT16	48	Supply Voltage	V	0,001	

Base Address (e.g. 0x5F0h)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 7	-	-	-	-	Brake Switch			
Byte 6	TPS Value							
Byte 5	TCU Output RPM							
Byte 4	TCU Output RPM							
Byte 3	TCU Input RPM							
Byte 2	TCU Input RPM							
Byte 1	Engine RPM							
Byte 0	Engine RPM							

Base Address + 1 (e.g. 0x5F1h)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 7	Blip %							
Byte 6	Shiftcut %							
Byte 5	-	-	-	-	TCU Intervention			
Byte 4	-	-	-	-	Shift In Progress			
Byte 3	Target Torque							
Byte 2	Target Torque							
Byte 1	Engine Torque							
Byte 0	Engine Torque							

Base Address + 2 (e.g. 0x5F2h)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 7	-	-	-	-	Paddle Down			
Byte 6	-	-	-	-	Paddle Up			
Byte 5	Converter Slip %							
Byte 4	Clutch Slip %							
Byte 3	Shifter Status							
Byte 2	TCU Gear							
Byte 1	Wheel Speed							
Byte 0								

Base Address + 3 (e.g. 0x5F3h)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 7	Digital Output 4							
Byte 6	Digital Output 3							
Byte 5	Digital Output 2							
Byte 4	Digital Output 1							
Byte 3	Digital Input 4							
Byte 2	Digital Input 3							
Byte 1	Digital Input 2							
Byte 0	Digital Input 1							

Base Address + 4 (e.g. 0x5F4h)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 7	Analog Input 4							
Byte 6								
Byte 5	Analog Input 3							
Byte 4								
Byte 3	Analog Input 2							
Byte 2								
Byte 1	Analog Input 1							
Byte 0								

Base Address + 5 (e.g. 0x5F5h)

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 7	Supply Voltage							
Byte 6								
Byte 5	Launch Control Active							
Byte 4	TCU DriveLogic Mode							
Byte 3	TCU Drive Mode							
Byte 2	TCU Oil Temp							
Byte 1	Last Shift Time							
Byte 0								