



CAN-A-DG-V2-5

CAN to Analog Converter

8 Analog outputs

SN: _____ Software version: _____

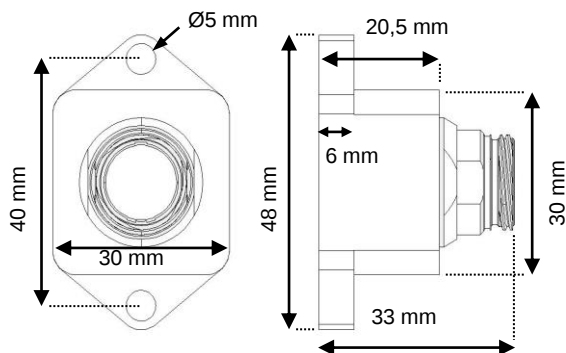
Texys sensors are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

Analog Outputs	Range	0-5 or 0-10	Volts
	Resolution 16bits	0.0763 or 0.1526	mV/bit
	Accuracy	0.2 (-20 / +125°C)	% FS
CAN capture	bus2.0 A or B	120Ω : ☐ yes ☐ no	
	Baud rate	125k to 1M	bps
	Max frequency (per frame)	200	Hz
Parameters		See parameters tables	
Supply Voltage		6 to 16	V
Supply Current		<30	mA
Dimensions		48x30x33	mm
Material		Aluminum	
Weight		45	g
Protection		IP67	
Vibration test		20Gpp 5'	
Operating Temp		-20 to +125	°C
Storage Temp		-40 to +125	°C

☐ Standard version:

Connector: LEMO HES.2M.319.XLDP

Mating connector: LEMO FGS.2M.319.XLM



☐ Cable option:

Cable: 19 AWG 28 RW-200-E-3/16

Cable length :mm

Ordering ref: CAN-A-DG-V2- *Output range - Option*

5: 0-5V C: cable

10: 0-10V

Ex: CAN-A-DG-V2-5 → output: 0-5V

Functional tests

CAN bus	Transmission and Reception	
Analog outputs	span	
	noise	
	Precision (calibration)	

Parameters (if not default value):

Function	Description	Pin	Ring1	Ring2
Supply	Supply (6 to 16 V)	1	Brown	
	GND*	2	Red	
Analog Outputs	Channel 1	3	Orange	
	Channel 2	4	Yellow	
	Channel 3	5	Green	
	Channel 4	6	Blue	
	Channel 5	7	Purple	
	Channel 6	8	Grey	
	Channel 7	9	White	
	Channel 8	10	Brown	Black
	GND*	11	Brown	Brown
	GND*	12	Brown	Red
CAN	CAN HIGH	13	Brown	Orange
	CAN LOW	14	Brown	Yellow
manufacturer reserved	do not connect	15	Brown	Green
Sensor supply	Protected supply (6 to 16 V)	16	Brown	Blue
	GND*	17	Brown	Purple
	GND*	18	Brown	Grey
	GND*	19	Brown	White

* Ground pins are internally connected

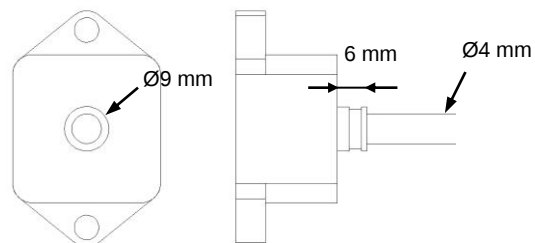
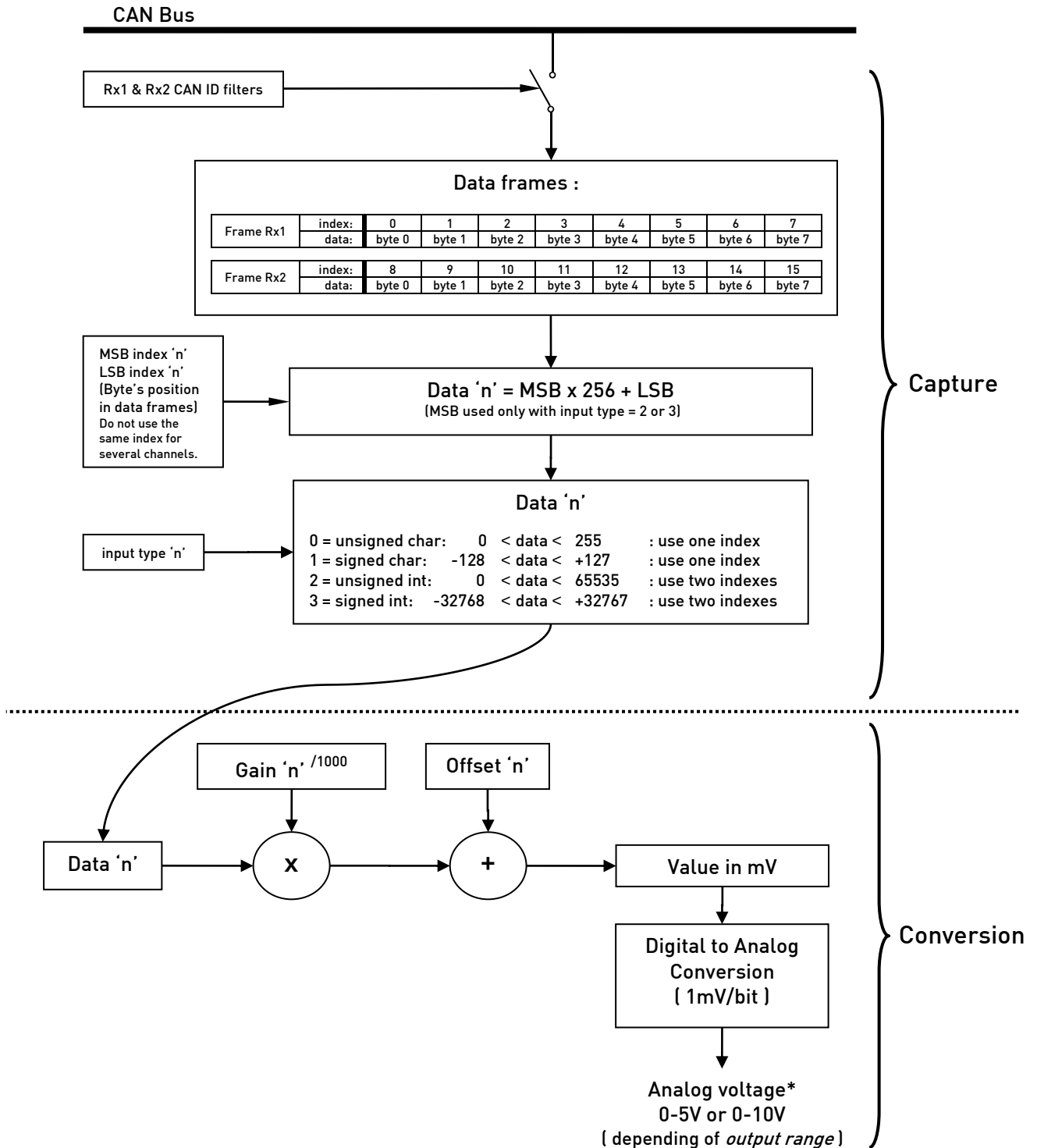


Diagram of the data processing



*In case of missing CAN frame, relevant channel are set to 50mV.

Changing parameters

Must be setup according to Texense's CAN protocol, or by using the Texense Android Smart Tool (tAST®) with your android device. Contact us at info@texense.com

CAN Parameters:

N°	parameter	type	values		Default value
0x00	Baudrate & A or B (11 or 29bits ID)	unsigned char	0x00	CAN 2.0A 1Mhz	0x00 (= CAN 2.0A 1Mhz)
			0x01	CAN 2.0A 500kHz	
			0x02	CAN 2.0A 250kHz	
			0x03	CAN 2.0A 125kHz	
			0x10	CAN 2.0B 1Mhz	
			0x11	CAN 2.0B 500kHz	
			0x12	CAN 2.0B 250kHz	
			0x13	CAN 2.0B 125kHz	
0x02	Rx1 filter ID	unsigned int	0x000 to 0x7F0 (to 0xFFFF for CAN2.0B)		0x3F0
0x04	Rx2 filter ID	unsigned int	0x000 to 0x7F0 (to 0xFFFF for CAN2.0B)		0x3F4

Conversion Parameters:

	N°	parameter	type	values		Default value
Analog channel #1	0x10	input type #1	unsigned char	0	unsigned char	2 (= unsigned int)
				1	signed char	
				2	unsigned int	
				3	signed int	
	0x20	MSB index #1	unsigned char	0 to 15		0
	0x21	LSB index #1	unsigned char	0 to 15		1
	0x30	MSB offset #1	signed int	±32000		0
	0x31	LSB offset #1				
Analog channel #2	0x40	MSB gain #1	signed int	±32000 (= ±32.000)		1000 (= 1.000)
	0x41	LSB gain #1				
	0x12	input type #2	unsigned char	0	unsigned char	2 (= unsigned int)
				1	signed char	
				2	unsigned int	
				3	signed int	
	0x22	MSB index #2	unsigned char	0 to 15		2
	0x23	LSB index #2	unsigned char	0 to 15		3
	0x32	MSB offset #2	signed int	±32000		0
	0x33	LSB offset #2				
Analog channel #8	0x42	MSB gain #2	signed int	±32000 (= ±32.000)		1000 (= 1.000)
	0x43	LSB gain #2				
	0x1E	input type #8	unsigned char	0	unsigned char	2 (= unsigned int)
				1	signed char	
				2	unsigned int	
				3	signed int	
	0x2E	MSB index #8	unsigned char	0 to 15		14
	0x2F	LSB index #8	unsigned char	0 to 15		15
	0x3E	MSB offset #8	signed int	±32000		0
	0x3F	LSB offset #8				
	0x4E	MSB gain #8	signed int	±32000 (= ±32.000)		1000 (= 1.000)
	0x4F	LSB gain #8				

For complete information, contact us at info@texense.com

Example for analog channel #1

