

KD41 CANopen[®] Pressure Transducer

Parameter Set Survey

1 Hardware

Galvanic isolation included	No	Yes (-40 to 105°C)
Bus termination included	No	Yes: 120Ω Yes: Split (2x 60Ω + 4,7nF) Yes: Switchable 120Ω (-40 to 212°F (-40 to 100°C))
EMC requirements	Industrial CE 12V/24V vehicles Railway applications	

2 Software Parameters

2.1 General Parameters

Initial Bit Rate [kBit/s]	20	100
	33.333	125 (standard)
	40	250
	47.619	500
	50	800
	83.333	1000
	95.238	Other:
Endianness of measurements	Little Endian (<i>CANopen[®] standard</i>)	
	Big Endian	
Start-up behavior	Automatic transfer to <i>Operational State</i> (Autostart)	
	Non-automatic transfer to <i>Operational State</i>	
Node-ID	0x20 (32 ₁₀)	Other:
Vendor-ID	0x1B7 (ADZ)	Other:

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COB-ID settings	SYNC (0x1005)	0x80	Other:
	TIME (0x1012)	0x100	Other:
	EMCY (0x1014)	0x80 + Node-ID	Other:
	TPDO1 (0x1800)	0x00000180 + Node-ID	Other:
Process Value - Linear Scaling	Pressure (Primary channel)	0...20000 ($\hat{=}$ measuring range)	Other:

2.2 TPDO Configuration

Communication parameters	Transmission trigger TPDO1	Timer (time as follows: Sync (count as follows:	ms))
Mappings (valid mappings see section 3)	TPDO1 mappings	Mapping 1: Mapping 2: Mapping 3: Mapping 4:	

2.3 Additional Parameters

Heartbeat interval	Enabled (time as follows: Disabled	ms)
User-defined serial number (Unsigned64; lower 32 bits used for LSS)	Based on the engraved "Z..." number Other	
Device Name String (Corresponds to object entry 0x1008)	Empty Other	
Comment String (Accessible via object entry 0x4020)	Empty Other	

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3 Appendix A - Valid TPDO Mapping Entries

TPDO mapping is a simple and flexible method to build *Process Data Messages* and to arrange the desired data values completely according to the user's needs. There are multiple values that can be mapped into TPDO1. The following table shows all mappable entries.

Name	Value Type	Value Range	Object Index, sub-index
Error Register	Unsigned8	-	0x1001, -
Field Value (Primary Channel)	Integer16	0...20000	0x7100, 1
Field Value (Secondary Channel)	Integer16	0...20000	0x7100, 2
Process Value (Primary Channel)	Integer16	(Acc. to linear scaling, section 2.1)	0x7130, 1
	Integer32	(Acc. to linear scaling, section 2.1)	0x9130, 1
	Float32/Real	(Acc. to linear scaling, section 2.1)	0x6130, 1
Status Byte (Primary Channel)	Unsigned8	-	0x6150, 1
Time stamp (Days since 1984-01-01)	Unsigned16	-	0x3140, 1
Time stamp (Milliseconds)	Unsigned32	-	0x3140, 2