



V1/4 5 VFL.0 /-V-C4D020

EDS for V1/4 5 VFL.0 /-V-C4D020

Vendor Number	218 / 0xDA
Vendor Name	HYDAC ELECTRONIC GMBH
Product Number	928741 / 0xE2BE5
Revision Number	0x00010000

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Features

Supported Baudrates	1 Mbit/s, 800 kbit/s, 500 kbit/s, 250 kbit/s, 125 kbit/s, 50 kbit/s, 20 kbit/s, 10 kbit/s
Simple Boot-Up Slave	not supported
Simple Boot-Up Master	not supported
Mapping Granularity	8 bit
Dynamic Channels	not supported
Multiplexed PDOs	not supported
Receive PDOs	1
Transmit PDOs	2
Layer Settings Service (LSS)	supported
Mappable Dummies	UNSIGNED8, UNSIGNED16, UNSIGNED32

Objects

Parameter Name	Object Type	Data Type	Index	Subindex	Access Type	PDO Mapping	Default	Low Limit	High Limit
Device type	VAR	UNSIGNED32	0x1000 (4096)	0x00 (0)	ro	not mappable	0x0 (0)		
Error register	VAR	UNSIGNED8	0x1001 (4097)	0x00 (0)	ro	mappable			
Manufacturer status register	VAR	UNSIGNED32	0x1002 (4098)	0x00 (0)	ro	mappable			
Pre-defined error field	ARRAY		0x1003 (4099)						
Number of errors	VAR	UNSIGNED8	0x1003 (4099)	0x00 (0)	rw	not mappable	0x0 (0)		0xa (10)
Standard error field 1	VAR	UNSIGNED32	0x1003 (4099)	0x01 (1)	ro	not mappable			
Standard error field 2	VAR	UNSIGNED32	0x1003 (4099)	0x02 (2)	ro	not mappable			
Standard error field 3	VAR	UNSIGNED32	0x1003 (4099)	0x03 (3)	ro	not mappable			
Standard error field 4	VAR	UNSIGNED32	0x1003 (4099)	0x04 (4)	ro	not mappable			
Standard error field 5	VAR	UNSIGNED32	0x1003 (4099)	0x05 (5)	ro	not mappable			
Standard error field 6	VAR	UNSIGNED32	0x1003 (4099)	0x06 (6)	ro	not mappable			
Standard error field 7	VAR	UNSIGNED32	0x1003 (4099)	0x07 (7)	ro	not mappable			
Standard error field 8	VAR	UNSIGNED32	0x1003 (4099)	0x08 (8)	ro	not mappable			
Standard error field 9	VAR	UNSIGNED32	0x1003 (4099)	0x09 (9)	ro	not mappable			
Standard error field 10	VAR	UNSIGNED32	0x1003 (4099)	0x0A (10)	ro	not mappable			
COB-ID SYNC	VAR	UNSIGNED32	0x1005 (4101)	0x00 (0)	rw	not mappable	0x80 (128)		
Manufacturer device name	VAR	VISIBLE STRING	0x1008 (4104)	0x00 (0)	const	not mappable	V1/4 5 VFL.0 /-V-C4D020		
Manufacturer hardware version	VAR	VISIBLE STRING	0x1009 (4105)	0x00 (0)	const	not mappable			
Manufacturer software version	VAR	VISIBLE STRING	0x100A (4106)	0x00 (0)	const	not mappable			
Store parameters	ARRAY		0x1010 (4112)						
Highest sub-index supported	VAR	UNSIGNED8	0x1010 (4112)	0x00 (0)	const	not mappable	0x5 (5)		
Save all parameters	VAR	UNSIGNED32	0x1010 (4112)	0x01 (1)	rw	not mappable	0x1 (1)		
Save communication parameters	VAR	UNSIGNED32	0x1010 (4112)	0x02 (2)	rw	not mappable	0x1 (1)		
Save application parameters	VAR	UNSIGNED32	0x1010 (4112)	0x03 (3)	rw	not mappable	0x1 (1)		
Save LSS parameters	VAR	UNSIGNED32	0x1010 (4112)	0x04 (4)	rw	not mappable	0x1 (1)		
Save VFL parameters	VAR	UNSIGNED32	0x1010 (4112)	0x05 (5)	rw	not mappable	0x1 (1)		
Restore default parameters	ARRAY		0x1011 (4113)						
Highest sub-index supported	VAR	UNSIGNED8	0x1011 (4113)	0x00 (0)	const	not mappable	0x5 (5)		
Restore all default Parameters	VAR	UNSIGNED32	0x1011 (4113)	0x01 (1)	rw	not mappable	0x1 (1)		
Restore communication default parameters	VAR	UNSIGNED32	0x1011 (4113)	0x02 (2)	rw	not mappable	0x1 (1)		
Restore application default parameters	VAR	UNSIGNED32	0x1011 (4113)	0x03 (3)	rw	not mappable	0x1 (1)		
Restore LSS default parameters	VAR	UNSIGNED32	0x1011 (4113)	0x04 (4)	rw	not mappable	0x1 (1)		
Restore VFL default parameters	VAR	UNSIGNED32	0x1011 (4113)	0x05 (5)	rw	not mappable	0x1 (1)		
COB-ID emergency message	VAR	UNSIGNED32	0x1014 (4116)	0x00 (0)	rw	not mappable	\$NODEID+0x80		
Inhibit time EMCY	VAR	UNSIGNED16	0x1015 (4117)	0x00 (0)	rw	not mappable	0x0 (0)		
Producer heartbeat time	VAR	UNSIGNED16	0x1017 (4119)	0x00 (0)	rw	not mappable	0x0 (0)		
Identity object	RECORD		0x1018 (4120)						
Highest sub-index supported	VAR	UNSIGNED8	0x1018 (4120)	0x00 (0)	const	not mappable	0x4 (4)		

Objects

Parameter Name	Object Type	Data Type	Index	Subindex	Access Type	PDO Mapping	Default	Low Limit	High Limit
Vendor-ID	VAR	UNSIGNED32	0x1018 (4120)	0x01 (1)	ro	not mappable	0xda (218)		
Product code	VAR	UNSIGNED32	0x1018 (4120)	0x02 (2)	ro	not mappable	0xe2be5 (928741)		
Revision number	VAR	UNSIGNED32	0x1018 (4120)	0x03 (3)	ro	not mappable	0x10000 (65536)		
Serial number	VAR	UNSIGNED32	0x1018 (4120)	0x04 (4)	ro	not mappable			
Error behavior	ARRAY		0x1029 (4137)						
Highest sub-index supported	VAR	UNSIGNED8	0x1029 (4137)	0x00 (0)	const	not mappable	0x3 (3)		
Communication error	VAR	UNSIGNED8	0x1029 (4137)	0x01 (1)	rw	not mappable	0x1 (1)		0x2 (2)
Profile- or manufacturer-specific error 3	VAR	UNSIGNED8	0x1029 (4137)	0x03 (3)	rw	not mappable	0x1 (1)		0x2 (2)
RPDO communication parameter 1	RECORD		0x1400 (5120)						
Highest sub-index supported	VAR	UNSIGNED8	0x1400 (5120)	0x00 (0)	const	not mappable	0x2 (2)		
COB-ID	VAR	UNSIGNED32	0x1400 (5120)	0x01 (1)	rw	not mappable	0x40000101 (1073742081)		
Transmission type	VAR	UNSIGNED8	0x1400 (5120)	0x02 (2)	rw	not mappable	0xfe (254)		
RPDO mapping parameter 1	RECORD		0x1600 (5632)						
Number of mapped objects in PDO	VAR	UNSIGNED8	0x1600 (5632)	0x00 (0)	rw	not mappable	0x1 (1)		0x8 (8)
1st object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x01 (1)	rw	not mappable	0x35060020 (889585696)		
2nd object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x02 (2)	rw	not mappable	0x0 (0)		
3rd object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x03 (3)	rw	not mappable	0x0 (0)		
4th object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x04 (4)	rw	not mappable	0x0 (0)		
5th object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x05 (5)	rw	not mappable	0x0 (0)		
6th object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x06 (6)	rw	not mappable	0x0 (0)		
7th object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x07 (7)	rw	not mappable	0x0 (0)		
8th object to be mapped	VAR	UNSIGNED32	0x1600 (5632)	0x08 (8)	rw	not mappable	0x0 (0)		
TPDO communication parameter 1	RECORD		0x1800 (6144)						
Highest sub-index supported	VAR	UNSIGNED8	0x1800 (6144)	0x00 (0)	const	not mappable	0x5 (5)		
COB-ID	VAR	UNSIGNED32	0x1800 (6144)	0x01 (1)	rw	not mappable	\$NODEID+0x40000180		
Transmission type	VAR	UNSIGNED8	0x1800 (6144)	0x02 (2)	rw	not mappable	0xfe (254)		
Inhibit time	VAR	UNSIGNED16	0x1800 (6144)	0x03 (3)	rw	not mappable	0x0 (0)		
Event timer	VAR	UNSIGNED16	0x1800 (6144)	0x05 (5)	rw	not mappable	0x3e8 (1000)		
TPDO communication parameter 2	RECORD		0x1801 (6145)						
Highest sub-index supported	VAR	UNSIGNED8	0x1801 (6145)	0x00 (0)	const	not mappable	0x5 (5)		
COB-ID	VAR	UNSIGNED32	0x1801 (6145)	0x01 (1)	rw	not mappable	\$NODEID+0x40000280		
Transmission type	VAR	UNSIGNED8	0x1801 (6145)	0x02 (2)	rw	not mappable	0xfe (254)		
Inhibit time	VAR	UNSIGNED16	0x1801 (6145)	0x03 (3)	rw	not mappable	0x0 (0)		
Event timer	VAR	UNSIGNED16	0x1801 (6145)	0x05 (5)	rw	not mappable	0x3e8 (1000)		
TPDO mapping parameter 1	RECORD		0x1A00 (6656)						
Number of mapped objects in PDO	VAR	UNSIGNED8	0x1A00 (6656)	0x00 (0)	rw	not mappable	0x2 (2)		0x8 (8)
1st object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x01 (1)	rw	not mappable	0x36010120 (906035488)		
2nd object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x02 (2)	rw	not mappable	0x36110008 (907083784)		
3rd object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x03 (3)	rw	not mappable	0x0 (0)		
4th object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x04 (4)	rw	not mappable	0x0 (0)		
5th object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x05 (5)	rw	not mappable	0x0 (0)		
6th object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x06 (6)	rw	not mappable	0x0 (0)		
7th object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x07 (7)	rw	not mappable	0x0 (0)		
8th object to be mapped	VAR	UNSIGNED32	0x1A00 (6656)	0x08 (8)	rw	not mappable	0x0 (0)		

Objects

Parameter Name	Object Type Data Type		Index	Subindex	Access Type	PDO Mapping	Default	Low Limit	High Limit
TPDO mapping parameter 2	RECORD		0x1A01 (6657)						
Number of mapped objects in PDO	VAR	UNSIGNED8	0x1A01 (6657)	0x00 (0)	rw	not mappable	0x1 (1)		0x8 (8)
1st object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x01 (1)	rw	not mappable	0x36010220 (906035744)		
2nd object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x02 (2)	rw	not mappable	0x0 (0)		
3rd object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x03 (3)	rw	not mappable	0x0 (0)		
4th object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x04 (4)	rw	not mappable	0x0 (0)		
5th object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x05 (5)	rw	not mappable	0x0 (0)		
6th object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x06 (6)	rw	not mappable	0x0 (0)		
7th object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x07 (7)	rw	not mappable	0x0 (0)		
8th object to be mapped	VAR	UNSIGNED32	0x1A01 (6657)	0x08 (8)	rw	not mappable	0x0 (0)		
NMT startup	VAR	UNSIGNED32	0x1F80 (8064)	0x00 (0)	rw	not mappable	0xc (12)		
Node-ID	VAR	UNSIGNED32	0x2001 (8193)	0x00 (0)	rw	not mappable	0x1 (1)		
Baudrate	VAR	UNSIGNED32	0x2002 (8194)	0x00 (0)	rw	not mappable	0x3 (3)		
Node-ID	ARRAY		0x2003 (8195)						
Highest sub-index supported	VAR	UNSIGNED8	0x2003 (8195)	0x00 (0)	const	not mappable	0x2 (2)		
Active node-ID	VAR	UNSIGNED8	0x2003 (8195)	0x01 (1)	ro	not mappable	0x1 (1)		
Pending node-ID	VAR	UNSIGNED8	0x2003 (8195)	0x02 (2)	rw	not mappable	0x1 (1)		
Baudrate	ARRAY		0x2004 (8196)						
Highest sub-index supported	VAR	UNSIGNED8	0x2004 (8196)	0x00 (0)	const	not mappable	0x2 (2)		
Active baudrate	VAR	UNSIGNED16	0x2004 (8196)	0x01 (1)	ro	not mappable	0x3 (3)		
Pending baudrate	VAR	UNSIGNED16	0x2004 (8196)	0x02 (2)	rw	not mappable	0x3 (3)		0x8 (8)
Checksum	VAR	UNSIGNED32	0x2010 (8208)	0x00 (0)	ro	not mappable			
External temperature decimals	VAR	UNSIGNED8	0x3500 (13568)	0x00 (0)	rw	not mappable	0x0 (0)		
External temperature unit	VAR	UNSIGNED32	0x3501 (13569)	0x00 (0)	rw	not mappable	0x2d0000 (2949120)		
External temperature value	VAR	REAL32	0x3506 (13574)	0x00 (0)	rww	mappable			
External temperature value	VAR	INTEGER16	0x3507 (13575)	0x00 (0)	rww	mappable			
External temperature value	VAR	INTEGER32	0x3509 (13577)	0x00 (0)	rww	mappable			
VFL reset	VAR	UNSIGNED32	0x35FF (13823)	0x00 (0)	wo	not mappable			
VFL parameter	RECORD		0x3600 (13824)						
Highest sub-index supported	VAR	UNSIGNED8	0x3600 (13824)	0x00 (0)	const	not mappable	0xf (15)		
Parameter 1	VAR	REAL32	0x3600 (13824)	0x01 (1)	rw	not mappable	0.5		
Parameter 2	VAR	REAL32	0x3600 (13824)	0x02 (2)	rw	not mappable	35		
Parameter 3	VAR	REAL32	0x3600 (13824)	0x03 (3)	rw	not mappable	5		
Parameter 4	VAR	REAL32	0x3600 (13824)	0x04 (4)	rw	not mappable	45		
Parameter 5	VAR	REAL32	0x3600 (13824)	0x05 (5)	rw	not mappable	6.7		
Parameter 6	VAR	REAL32	0x3600 (13824)	0x06 (6)	rw	not mappable	-0.33		
Parameter 7	VAR	REAL32	0x3600 (13824)	0x07 (7)	rw	not mappable	-3		
Parameter 8	VAR	REAL32	0x3600 (13824)	0x08 (8)	rw	not mappable	9999		

Objects

Parameter Name	Object Type	Data Type	Index	Subindex	Access Type	PDO Mapping	Default	Low Limit	High Limit
Parameter 9	VAR	REAL32	0x3600 (13824)	0x09 (9)	rw	not mappable	6000		
Parameter 10	VAR	REAL32	0x3600 (13824)	0x0A (10)	rw	not mappable	100		
Parameter 11	VAR	REAL32	0x3600 (13824)	0x0B (11)	rw	not mappable	3		
Parameter 12	VAR	UNSIGNED16	0x3600 (13824)	0x0C (12)	const	not mappable	0x1e (30)		
Parameter 13	VAR	UNSIGNED16	0x3600 (13824)	0x0D (13)	const	not mappable	0x50 (80)		
Parameter 14	VAR	INTEGER16	0x3600 (13824)	0x0E (14)	const	not mappable	0x1f4 (500)		
Parameter 15	VAR	BOOLEAN	0x3600 (13824)	0x0F (15)	const	not mappable	1		
VFL operating data	RECORD		0x3601 (13825)						
Highest sub-index supported	VAR	UNSIGNED8	0x3601 (13825)	0x00 (0)	const	not mappable	0x2 (2)		
Rest lifetime	VAR	REAL32	0x3601 (13825)	0x01 (1)	ro	mappable			
Operating hours	VAR	REAL32	0x3601 (13825)	0x02 (2)	ro	mappable			
VFL operating data	RECORD		0x3602 (13826)						
Highest sub-index supported	VAR	UNSIGNED8	0x3602 (13826)	0x00 (0)	const	not mappable	0x2 (2)		
Rest lifetime	VAR	INTEGER32	0x3602 (13826)	0x01 (1)	ro	mappable			
Operating hours	VAR	INTEGER32	0x3602 (13826)	0x02 (2)	ro	mappable			
VFL status	VAR	UNSIGNED8	0x3611 (13841)	0x00 (0)	ro	mappable			
Parameter 16	RECORD		0x3620 (13856)						
Highest sub-index supported	VAR	UNSIGNED8	0x3620 (13856)	0x00 (0)	const	not mappable	0xe (14)		
Parameter 16.1	VAR	REAL32	0x3620 (13856)	0x01 (1)	const	not mappable	0		
Parameter 16.2	VAR	REAL32	0x3620 (13856)	0x02 (2)	const	not mappable	0.5		
Parameter 16.3	VAR	REAL32	0x3620 (13856)	0x03 (3)	const	not mappable	1		
Parameter 16.4	VAR	REAL32	0x3620 (13856)	0x04 (4)	const	not mappable	1.2		
Parameter 16.5	VAR	REAL32	0x3620 (13856)	0x05 (5)	const	not mappable	2		
Parameter 16.6	VAR	REAL32	0x3620 (13856)	0x06 (6)	const	not mappable	2.5		
Parameter 16.7	VAR	REAL32	0x3620 (13856)	0x07 (7)	const	not mappable	3.3		
Parameter 16.8	VAR	REAL32	0x3620 (13856)	0x08 (8)	const	not mappable	4.5		
Parameter 16.9	VAR	REAL32	0x3620 (13856)	0x09 (9)	const	not mappable	6		
Parameter 16.10	VAR	REAL32	0x3620 (13856)	0x0A (10)	const	not mappable	9		
Parameter 16.11	VAR	REAL32	0x3620 (13856)	0x0B (11)	const	not mappable	15		
Parameter 16.12	VAR	REAL32	0x3620 (13856)	0x0C (12)	const	not mappable	20		
Parameter 16.13	VAR	REAL32	0x3620 (13856)	0x0D (13)	const	not mappable	45		
Parameter 16.14	VAR	REAL32	0x3620 (13856)	0x0E (14)	const	not mappable	100		
Parameter 17	RECORD		0x3621 (13857)						
Highest sub-index supported	VAR	UNSIGNED8	0x3621 (13857)	0x00 (0)	const	not mappable	0xe (14)		
Parameter 17.1	VAR	REAL32	0x3621 (13857)	0x01 (1)	const	not mappable	0		
Parameter 17.2	VAR	REAL32	0x3621 (13857)	0x02 (2)	const	not mappable	25		
Parameter 17.3	VAR	REAL32	0x3621 (13857)	0x03 (3)	const	not mappable	30		
Parameter 17.4	VAR	REAL32	0x3621 (13857)	0x04 (4)	const	not mappable	35		
Parameter 17.5	VAR	REAL32	0x3621 (13857)	0x05 (5)	const	not mappable	40		
Parameter 17.6	VAR	REAL32	0x3621 (13857)	0x06 (6)	const	not mappable	45		
Parameter 17.7	VAR	REAL32	0x3621 (13857)	0x07 (7)	const	not mappable	50		
Parameter 17.8	VAR	REAL32	0x3621 (13857)	0x08 (8)	const	not mappable	55		
Parameter 17.9	VAR	REAL32	0x3621 (13857)	0x09 (9)	const	not mappable	62		
Parameter 17.10	VAR	REAL32	0x3621 (13857)	0x0A (10)	const	not mappable	70		

Objects

Parameter Name	Object Type	Data Type	Index	Subindex	Access Type	PDO Mapping	Default	Low Limit	High Limit
Parameter 17.11	VAR	REAL32	0x3621 (13857)	0x0B (11)	const	not mappable	80		
Parameter 17.12	VAR	REAL32	0x3621 (13857)	0x0C (12)	const	not mappable	90		
Parameter 17.13	VAR	REAL32	0x3621 (13857)	0x0D (13)	const	not mappable	95		
Parameter 17.14	VAR	REAL32	0x3621 (13857)	0x0E (14)	const	not mappable	100		