## SIEMENS

## Data sheet

## 6ES7134-6JD00-0DA1



SIMATIC ET 200SP, Analog input module, AI 4xTC High Speed, suitable for BU type A0, A1, Color code CC00, channel diagnostics, 16 bit, +/-0.1%

Product type designation     At 4xTC HS       HW functional status     From FS02       Firmware version     Yes       usable BaseUnits     But type A0, A1       Color code for module-specific color identification plate     C000       Product function     But type A0, A1       • I&M data     Yes; I&M0 to I&M3       • Isochronous mode     No       • Isochronous mode     Yes       Engineering with     Yes       • STEP 7 TA Portal configurable/integrated from version     V15 with HSP 265/integrated as of V15.1       • STEP 7 Ta Portal configurable/integrated from version     V5 5 SP3 or higher       • PROFIBUS from GSD version/GSD revision     GSDML V2.3       Operating mode     -       • Oversampling     No       • MSI     Yes       Calibration possible in RUN     Yes       Calibration possible in RUN     Yes       Calibration possible in RUN     Yes       Permissible range, lower limit (DC)     24 V       permissible range, upper limit (DC)     28.8 V       Reverse polarity protection     Yes       Input current     -       Current consumption (rated value)     37 mA       Current consumption, max.     50 mA       Power loss     -       Power loss     -       Power loss	General information	
Firmware version     Yes       • FW update possible     Yes       usable BaseUnits     BU type A0, A1       Color code for module-specific color identification plate     CC00       Product function     CC00       • I&M data     Yes; I&M0 to I&M3       • Isochronous mode     No       • Isochronous mode     Yes       Engineering with     Yes       • STEP 7 TA Portal configurable/integrated from version     V15 with HSP 265/integrated as of V15.1       • STEP 7 configurable/integrated from version     V5.5 SP3 or higher       • PROFIBUS from GSD version/GSD revision     One GSD file each, Revision 3 and 5 and higher       • Oversampling     No       • MSI     Yes       Calibration possible in RUN     Yes       Calibration possible in RUN     Yes       Supply voltage     ZV       Permissible range, lower limit (DC)     24 V       permissible range, upper limit (DC)     28.8 V       Reeverse polarity protection     Yes       Input current     Current consumption, max.       Courrent consumption, max.     50 mA       Power loss     - 0.9 W       Address space per module, max.     16 byle; +1 byle for QI information       Address space per module, max.     16 byle; +1 byle for QI information       Address space per module     Yes <td>Product type designation</td> <td>AI 4xTC HS</td>	Product type designation	AI 4xTC HS
• FW update possible         Yes           usable BaseUnits         BU type A0, A1           Color code for module-specific color identification plate         CO0           Product function         Color code for module-specific color identification plate         CO0           • I&M data         Yes; I&M0 to I&M3         No           • Measuring range scalable         Yes         Engineering with           • STEP 7 TIA Portal configurable/integrated from version         V15 with HSP 265/integrated as of V15.1           • STEP 7 TIA Portal configurable/integrated from version         V5 5 SP3 or higher           • PROFIBUS from GSD version/GSD revision         One GSD file each, Revision 3 and 5 and higher           • PROFIBUS from GSD version/GSD revision         One GSD file each, Revision 3 and 5 and higher           • Oversampling         No           • Mos         Yes           ClR - Configuration in RUN         Yes           Reparameterization possible in RUN         Yes           Supply voltage         Yes           Rated value (OC)         24 V           permissible range, upper limit (DC)         19.2 V           permissible range, upper limit (DC)         28.8 V           Reverse polarity protection         Yes           Power loss, typ.         0.9 W           Addre	HW functional status	From FS02
usable BaseUnits     BU type A0, A1       Color code for module-specific color identification plate     CC00       Product function     CC00       • I&M data     Yes; I&M0 to I&M3       • IBM data     Yes; I&M0 to I&M3       • IBM data     Yes; I&M0 to I&M3       • IBM data     Yes; I&M0 to I&M3       • ISCHTONOUS mode     Yes       Engineering with     Yes       • STEP 7 TA Portal configurable/integrated from version     V5.5 SP3 or higher       • PROFINET from GSD version/GSD revision     Ose SD file each, Revision 3 and 5 and higher       • PROFINET from GSD version/GSD revision     GSDML V2.3       Operating mode     • Oversampling       • Oversampling     No       • MSI     Yes       Calibration possible in RUN     Yes       Supply voltage     Retar value (DC)       permissible range, lower limit (DC)     19.2 V       permissible range, upper limit (DC)     28.8 V       Rever toss, typ.     0.9 W       Address space per module     6 oversampling       • Address space per module, max.     16 byle; +1 byle for Ol information       Hardware configuration     Yes       Address space per m	Firmware version	
Color code for module-specific color identification plate       CC00         Product function       CC00         • I&M data       Yes; I&M0 to I&M3         • Isochronous mode       No         • Measuring range scalable       Yes         Engineering with       Yes         • STEP 7 TIA Portal configurable/integrated from version       V15 with HSP 265/integrated as of V15.1         • STEP 7 configurable/integrated from version       V5.5 SP3 or higher         • PROFIBUS from GSD version/GSD revision       One GSD file each, Revision 3 and 5 and higher         • Oversampling       No         • MSI       Yes         Calitration possible in RUN       Yes         Calitration possible in RUN       Yes         Supply voltage       Reted value (DC)         permissible range, lower limit (DC)       24 V         permissible range, lower limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)       37 mA         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       Yes         Address space per module, max.       16 byte; +1 byte for QI information         Address space per module, max.	<ul> <li>FW update possible</li> </ul>	Yes
Product function       Ves; I&M0 to I&M3         • I&M data       Yes; I&M0 to I&M3         • Isochronous mode       No         • Measuring range scalable       Yes         Engineering with       V15 with HSP 265/integrated as of V15.1         • STEP 7 TA Portal configurable/integrated from version       V5.5 SP3 or higher         • PROF/IBUS from GSD version/GSD revision       Oce GSD file each, Revision 3 and 5 and higher         • PROF/INET from GSD version/GSD revision       GSDML V2.3         Operating mode       Versampling         • Oversampling       No         • MSI       Yes         Calibration possible in RUN       Yes         Calibration possible in RUN       Yes         Supply voltage       Permissible range, upper limit (DC)         permissible range, upper limit (DC)       24 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss, typ.       0.9 W         Address space per module       -         • Address space per module       -         • Address space per module       Yes         • Mechanical coding element </td <td>usable BaseUnits</td> <td>BU type A0, A1</td>	usable BaseUnits	BU type A0, A1
• i&M data     Yes; i&M0 to I&M3       • isochronous mode     No       • Measuring range scalable     Yes       Engineering with     Yes       • STEP 7 TiA Portal configurable/integrated from version     V15 with HSP 265/integrated as of V15.1       • STEP 7 configurable/integrated from version     V5.5 SP3 or higher       • PROFINET from GSD version/GSD revision     One GSD file each, Revision 3 and 5 and higher       • PROFINET from GSD version/GSD revision     GSDML V2.3       Operating mode     Versampling       • Oversampling     No       • SIS     Yes       CiR - Configuration in RUN     Yes       Reparameterization possible in RUN     Yes       Calibration possible in RUN     Yes       Supply ovidtage     Zet V       Permissible range, lower limit (DC)     19.2 V       permissible range, upper limit (DC)     28.8 V       Reverse polarity protection     Yes       Input current     Current consumption, max.       Current consumption, max.     50 mA       Power loss, typ.     0.9 W       Address space per module     0.9 W       Address space per module     16 byle; + 1 byle for QI information       Hardware configuration     Yes       • Mechanical coding element     Yes <td>Color code for module-specific color identification plate</td> <td>CC00</td>	Color code for module-specific color identification plate	CC00
• isochronous mode     No       • Measuring range scalable     Yes       Engineering with     •       • • STEP 7 TA Portal configurable/integrated from version     V15 with HSP 265/integrated as of V15.1       • STEP 7 configurable/integrated from version     V5.5 SP3 or higher       • PROFIBUS from GSD version/GSD revision     One GSD file each, Revision 3 and 5 and higher       • PROFINET from GSD version/GSD revision     Ge GSD file each, Revision 3 and 5 and higher       • Oversampling     No       • Oversampling     No       • NSI     Yes       Calibration possible in RUN     Yes       Reparameterization possible in RUN     Yes       Supply voltage     Instrument, COC)       permissible range, lower limit (DC)     24 V       permissible range, upper limit (DC)     28.8 V       Reverse polarity protection     Yes       Input consumption (rated value)     37 mA       Current consumption, max.     50 mA       Power loss, lyp.     0.9 W       Address space per module     0.9 W       Address space per module, max.     16 byte; +1 byte for QI information       Hardware configuration     Yes       • Mechanical coding element     Yes	Product function	
• Measuring range scalable     Yes       Engineering with     V15 with HSP 265/integrated as of V15.1       • STEP 7 TIA Portal configurable/integrated from version     V5.5 SP3 or higher       • PROFIBUS from GSD version/GSD revision     One GSD file each, Revision 3 and 5 and higher       • PROFINET from GSD version/GSD revision     GSDML V2.3       Operating mode     • Oversampling       • Oversampling     No       • MSI     Yes       Calibration possible in RUN     Yes       Calibration possible in RUN     Yes       Supply voltage     Rated value (DC)       Permissible range, lower limit (DC)     24 V       permissible range, upper limit (DC)     28.8 V       Reverse polarity protection     Yes       Current consumption, max.     50 mA       Power loss, typ.     0.9 W       Address space per module     -       • Address space per module, max.     16 byte; + 1 byte for Ql information       Hardware configuration     Yes       Address space per module, max.     16 byte; + 1 byte for Ql information	I&M data	Yes; I&M0 to I&M3
Engineering with <ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> <li>STEP 7 configurable/integrated from version</li> <li>STEP 7 configurable/integrated from version</li> <li>PROFIBUS from GSD version/GSD revision</li> <li>GSDML V2.3</li> </ul> One GSD file each, Revision 3 and 5 and higher <ul> <li>PROFIBUS from GSD version/GSD revision</li> <li>GSDML V2.3</li> </ul> Operating mode <ul> <li>Oversampling</li> <li>MSI</li> <li>Yes</li> </ul> CiR - Configuration in RUN             Reparameterization possible in RUN         Yes <li>Supply voltage</li> <li>Rated value (DC)</li> <li>Permissible range, lower limit (DC)</li> <li>Pl.2 V</li> <ul> <li>Permissible range, lower limit (DC)</li> <li>Pl.2 V</li> <li>permissible range, upper limit (DC)</li> <li>Pl.2 V</li> <li>permissible range, upper limit (DC)</li> <li>Pl.3 V</li> <li>Power loss, typ.</li> <li>O mA</li> </ul> Power loss         90 w           Address area           Address apace per module <li>Address apace per module, max.</li> Address space per module, max.         16 byte; + 1 byte for Ql information           Hardware configuration         Yes           Mutomatic encoding         Yes           Mutomaticen	Isochronous mode	No
• STEP 7 TIA Portal configurable/integrated from version       V15 with HSP 265/integrated as of V15.1         • STEP 7 configurable/integrated from version       V5.5 SP3 or higher         • PROFIBUS from GSD version/GSD revision       One GSD file each, Revision 3 and 5 and higher         • PROFINET from GSD version/GSD revision       GSD file each, Revision 3 and 5 and higher         • Oversampling       No         • MSI       Yes         Calibration possible in RUN       Yes         Calibration possible in RUN       Yes         Supply voltage       24 V         Permissible range, lower limit (DC)       19.2 V         permissible range, lower limit (DC)       28.8 V         Reverse polarity protection       Yes         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       90 wer loss         Power loss       16 byte; + 1 byte for QI information         Hardware configuration       Yes         Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         • Type of mechanical coding element       Yes	Measuring range scalable	Yes
• STEP 7 configurable/integrated from version       V5.5 SP3 or higher         • PROFIBUS from GSD version/GSD revision       One GSD file each, Revision 3 and 5 and higher         • PROFINET from GSD version/GSD revision       GSDML V2.3         Operating mode       • Oversampling         • Oversampling       No         • MSI       Yes         Calibration possible in RUN       Yes         Calibration possible in RUN       Yes         Supply voltage       Reparameterization possible in RUN         Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Current       S0 mA         Power loss       Power loss         Power loss       0.9 W         Address area       16 byte; +1 byte for QI information         Address space per module       Yes         • Address space per module       Yes         • Address space per module       Yes         • Type of mechanical coding element       Yes	Engineering with	
PROFIBUS from GSD version/GSD revision     PROFINET from GSD version/GSD revision     GSDML V2.3     Operating mode     Oversampling     No     Versampling     No     MSI     Yes     CiR - Configuration in RUN     Reparameterization possible in RUN     Yes     Calibration possible in RUN     Yes     Supply voltage     Rated value (DC)     24 V     permissible range, lower limit (DC)     19.2 V     permissible range, upper limit (DC)     28.8 V     Reverse polarity protection     Yes     Input current     Current consumption, max.     50 mA     Power loss     Power loss     Power loss, typ.     0.9 W     Address space per module     • Address space per module, max.     16 byte; +1 byte for QI information     Hardware configuration     Automatic encoding	<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V15 with HSP 265/integrated as of V15.1
PROFINET from GSD version/GSD revision     GSDML V2.3  Operating mode     Oversampling     No     MSI     Yes  CIR - Configuration In RUN  Reparameterization possible in RUN     Yes  Calibration possible in RUN     Yes  Supply voltage  Rated value (DC)     24 V  permissible range, lower limit (DC)     19.2 V  permissible range, upper limit (DC)     28.8 V  Reverse polarity protection     Yes  Input current Current consumption, max.     50 mA  Power loss, typ.     0.9 W  Address space per module     Yes      Type of mechanical coding element     Yes     Type A	<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 or higher
Operating mode       No         • Oversampling       No         • MSI       Yes         CiR - Configuration in RUN       Pes         Calibration possible in RUN       Yes         Calibration possible in RUN       Yes         Supply voltage       Permissible range, lower limit (DC)         Permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption, max.         Current consumption, max.       50 mA         Power loss       0.9 W         Address space per module       0.9 W         Address space per module       16 byte; + 1 byte for Ql information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Yes	<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	One GSD file each, Revision 3 and 5 and higher
• Oversampling     No       • MSI     Yes       CiR - Configuration in RUN     Yes       Reparameterization possible in RUN     Yes       Calibration possible in RUN     Yes       Supply voltage     Yes       Rated value (DC)     24 V       permissible range, lower limit (DC)     19.2 V       permissible range, upper limit (DC)     28.8 V       Reverse polarity protection     Yes       Input current     Current consumption (rated value)       Current consumption, max.     50 mA       Power loss     Power loss       Power loss     V       Address space per module     -       • Address space per module, max.     16 byte; + 1 byte for Ql information       Hardware configuration     Yes       Automatic encoding     Yes       • Mechanical coding element     Yes	<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.3
MSI Yes CIR - Configuration in RUN Reparameterization possible in RUN Reparameterization possible in RUN Reparameterization possible in RUN Reparameterization possible in RUN Retacle (DC) Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current Consumption (rated value) To mA Current consumption, max. So mA Power loss, typ. Address space per module, max. 16 byte; + 1 byte for Ql information Hardware configuration Automatic encoding Yes New Automatic encoding Yes Type of mechanical coding element Type A	Operating mode	
CIR - Configuration in RUN       Yes         Reparameterization possible in RUN       Yes         Calibration possible in RUN       Yes         Supply voltage       24 V         Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       20 MA         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss, typ.       0.9 W         Address space per module       4ddress space per module, max.         • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Oversampling	No
Reparameterization possible in RUN       Yes         Calibration possible in RUN       Yes         Supply voltage       Supply voltage         Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       Power loss, typ.       0.9 W         Address space per module	• MSI	Yes
Calibration possible in RUN       Yes         Supply voltage       24 V         Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Yes         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       90 W         Address space per module       0.9 W         Address space per module, max.       16 byte; + 1 byte for Ql information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	CiR - Configuration in RUN	
Supply voltage         Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       7 mA         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       0.9 W         Address space per module       0.9 W         Address space per module       16 byte; + 1 byte for QI information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Reparameterization possible in RUN	Yes
Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       90wer loss, typ.       0.9 W         Address space per module       0.9 W         Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Calibration possible in RUN	Yes
permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)         Current consumption, max.       50 mA         Power loss       0.9 W         Address space per module       0.9 W         Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Supply voltage	
permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       Power loss, typ.       0.9 W         Address area       Address space per module       • Address space per module, max.         • Address space per module, max.       16 byte; + 1 byte for Ql information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Rated value (DC)	24 V
Reverse polarity protection       Yes         Input current       Input current         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       90 W         Address area       0.9 W         Address space per module       0.9 W         • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	permissible range, lower limit (DC)	19.2 V
Input current         Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       90 wer loss, typ.         Power loss, typ.       0.9 W         Address area       Address space per module         • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	permissible range, upper limit (DC)	28.8 V
Current consumption (rated value)       37 mA         Current consumption, max.       50 mA         Power loss       0.9 W         Address area       0.9 W         Address space per module       0.9 W         • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Reverse polarity protection	Yes
Current consumption, max.       50 mA         Power loss       0.9 W         Address area       0.9 W         Address space per module       0.9 W         Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Input current	
Power loss         Power loss, typ.       0.9 W         Address area         Address space per module         • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Current consumption (rated value)	37 mA
Power loss, typ.       0.9 W         Address area       Address space per module         • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Current consumption, max.	50 mA
Address area         Address space per module         • Address space per module, max.         16 byte; + 1 byte for QI information         Hardware configuration         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Power loss	
Address space per module       • Address space per module, max.       16 byte; + 1 byte for QI information         Hardware configuration       • Mechanical coding element       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Power loss, typ.	0.9 W
Address space per module, max.     16 byte; + 1 byte for QI information     Hardware configuration     Automatic encoding         Mechanical coding element         Yes         Type of mechanical coding element         Type A	Address area	
Hardware configuration         Automatic encoding       Yes         • Mechanical coding element       Yes         • Type of mechanical coding element       Type A	Address space per module	
Automatic encoding     Yes       • Mechanical coding element     Yes       • Type of mechanical coding element     Type A	Address space per module, max.	16 byte; + 1 byte for QI information
Mechanical coding element Yes     Type of mechanical coding element Type A	Hardware configuration	
Mechanical coding element Yes     Type of mechanical coding element Type A	Automatic encoding	Yes
Type of mechanical coding element     Type A	-	Yes
	-	Туре А
Selection of Daseonic for connection variants	Selection of BaseUnit for connection variants	

2-wire connection	BU type A0, A1
Analog inputs	
Number of analog inputs	4
permissible input voltage for voltage input (destruction limit), max.	30 V
Cycle time (all channels), min.	5 ms; Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels)
Technical unit for temperature measurement adjustable	Yes; °C/°F/K
Input ranges (rated values), voltages	
• -1 V to +1 V	Yes; 16 bit incl. sign
— Input resistance (-1 V to +1 V)	1 MΩ
• -250 mV to +250 mV	Yes; 16 bit incl. sign
- Input resistance (-250 mV to +250 mV)	1 MΩ
• -50 mV to +50 mV	Yes; 16 bit incl. sign
<ul> <li>Input resistance (-50 mV to +50 mV)</li> </ul>	1 MΩ
• -80 mV to +80 mV	Yes; 16 bit incl. sign
<ul> <li>Input resistance (-80 mV to +80 mV)</li> </ul>	1 MΩ
Input ranges (rated values), thermocouples	
• Туре В	Yes; 16 bit incl. sign
— Input resistance (Type B)	1 MΩ
• Type C	Yes; 16 bit incl. sign
— Input resistance (Type C)	1 MΩ
• Туре Е	Yes; 16 bit incl. sign
— Input resistance (Type E)	1 ΜΩ
• Туре Ј	Yes; 16 bit incl. sign
<ul> <li>Input resistance (type J)</li> </ul>	1 MΩ
• Туре К	Yes; 16 bit incl. sign
— Input resistance (Type K)	1 MΩ
• Type L	Yes; 16 bit incl. sign
<ul> <li>Input resistance (Type L)</li> </ul>	1 MΩ
• Type N	Yes; 16 bit incl. sign
<ul> <li>Input resistance (Type N)</li> </ul>	1 MΩ
• Type R	Yes; 16 bit incl. sign
— Input resistance (Type R)	1 MΩ
• Type S	Yes; 16 bit incl. sign
— Input resistance (Type S)	1 MΩ
• Туре Т	Yes; 16 bit incl. sign
— Input resistance (Type T)	1 MΩ
● Туре U	Yes; 16 bit incl. sign
— Input resistance (Type U)	1 ΜΩ
<ul> <li>Type TXK/TXK(L) to GOST</li> </ul>	Yes; 16 bit incl. sign
<ul> <li>Input resistance (Type TXK/TXK(L) to GOST)</li> </ul>	1 ΜΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	Yes
- Reference channel of the module	No
— internal comparison point	Yes; with BaseUnit type A1
- Reference channel of the group	Yes
— Number of reference channel groups	4; Group 0 to 3
— fixed reference temperature	Yes
Cable length	
<ul> <li>shielded, max.</li> </ul>	200 m; 100 m for thermocouples
Analog value generation for the inputs	
Measurement principle	integrating (Sigma-Delta)
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
Integration time, parameterizable	Yes
Basic conversion time, including integration time (ms)	
- additional processing time for wire-break check	1 ms
<ul> <li>Interference voltage suppression for interference frequency f1 in Hz</li> </ul>	16.6 / 50 / 60 Hz / off

Conversion time (ner channel)	180/60/50/1.25 ms
Conversion time (per channel)     Smoothing of measured values	100/00/30/1.20 118
Number of smoothing levels	4; None; 4/8/16 times
parameterizable	Yes
Step: None	Yes
Step: low	Yes
Step: Medium	Yes
Step: High	Yes
Encoder	
Connection of signal encoders	
for voltage measurement	Yes
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.01 %
Temperature error (relative to input range), (+/-)	0.005 %/K
Crosstalk between the inputs, min.	-70 dB
Repeat accuracy in steady state at 25 °C (relative to input	0.03 %
range), (+/-)	
Operational error limit in overall temperature range	
<ul> <li>Voltage, relative to input range, (+/-)</li> </ul>	0.1 %; 0.3 % when SFU OFF
Basic error limit (operational limit at 25 °C)	
Voltage, relative to input range, (+/-)	0.05 %; 0.2 % when SFU OFF
Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interfe	
<ul> <li>Series mode interference (peak value of interference &lt; rated value of input range), min.</li> </ul>	70 dB
<ul> <li>Common mode voltage, max.</li> </ul>	60 V; DC
Common mode interference, min.	90 dB
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Limit value alarm	Yes; two upper and two lower limit values in each case
Diagnoses	
Monitoring the supply voltage	Yes
• Wire-break	Yes; channel by channel
• Group error	Yes
Overflow/underflow	Yes; channel by channel
Diagnostics indication LED	Vaci groop DWD LED
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
<ul> <li>Channel status display</li> <li>for channel diagnostics</li> </ul>	Yes; green LED Yes; red LED
for module diagnostics	Yes; green/red LED
Potential separation	res, greenmed LED
Potential separation channels	
between the channels	No
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>between the channels and backplane bus</li> <li>between the channels and the power supply of the</li> </ul>	Yes
electronics	
Permissible potential difference	
between the inputs (UCM)	60 V DC
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for applications according to AMS 2750	Yes; Declaration of Conformity, see online support entry 109757262
Suitable for applications according to CQI-9	Yes; Based on AMS 2750 E
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; < 0 °C as of FS02
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C; < 0 °C as of FS02
<ul> <li>vertical installation, max.</li> </ul>	50 °C
Altitude during operation relating to sea level	

Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	33 g

last modified:

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