SIEMENS

Data sheet

6ES7134-6FF00-0AA1



SIMATIC ET 200SP, Analog input module, AI 8XU Basic, suitable for BU type A0, A1, Color code CC02, Module diagnostics, 16 bit

Product type designation All 8xU BA HW functional status from FS04 Firmware version FW update possible usable BaseUnits FW update possible Usbelle BaseUnits BU type A0, A1 CC02 Product function IsM data Isochronous mode Measuring range scalable No Fingineering with STEP 7 TIA Portal configurable/integrated from version FROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision MSI Cirl - Configuration in RUN Reparameterization possible in RUN No Supply voltage Rated value (DC) permissible range, upper limit (DC) 28.8 V Reverse polarity protection Type Input current Current consumption, max. 25 mA Power loss Power loss, typ. Address space per module, max. Address space per module, max. 16 byte Hardware configuration Automatic encoding	General information	
Firmware version FVW update possible usable BaseUnits Color code for module-specific color identification plate Product function I &M data Socknronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version FROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision FROFIGURING MSI No CIR - Configuration in RUN Reparameterization possible in RUN Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Power loss, typ. Address space per module Address space per module, max. 18 MU yes CC02 BU Uye A0, A1 CC02 CC02 BU Uye A0, A1 CC02 CC02 CC02 BU Uye A0, A1 CC02 CC02	Product type designation	AI 8xU BA
FW update possible usable BaseUnits Color code for module-specific color identification plate Product function I &M data I Sechronous mode I Sechronous mode I Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version FROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision I Mall I No CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible range, lower limit (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Power loss Power loss, typ. Address space per module Address space per module Address space per module Address space per module, max. 18 byte Pass Mall BU Uppe A0, A1 CC02 CC02 BU Uppe A0, A1 CC02 CC02 BU Uppe A0, A1 CC02 CC02 PVes; I&M0 to I&M3 Yes; I&M0 to I&M3 Yes V3 SP1 V3 SP1 V4 SP1 V5 SP3 /- One GSD file each, Revision 3 and 5 and higher One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 3 and 5 and higher V5.5 SP3 /- One GSD file each, Revision 4 Stantanton 4 Stantan	HW functional status	from FS04
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Color code for module-specific color identification plate Product function I I&M data I Scochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version FTEP 7 Ton GSD version/GSD revision PROFIBUS from GSD version/GSD revision ProfIguration in RUN Prescription from GSD version/GSD revision ProfIguration in RUN Prescription from GSD version/GSD revision ProfIguration from V5.5 SP3 / - ProfIguration from GSD version/GSD revision ProfIguration from V5.5 SP3 / - ProfIguration from V5.5	FW update possible	Yes
Product function • I&M data • Isochronous mode • Measuring range scalable Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 configurable/integrated from version • STEP 7 Tonfigurable/integrated from version • STEP 7 Tonfigurable/integrated from version • PROFIBUS from GSD version/GSD revision • PROFINET from GSD version/GSD revision • Oversampling • MSI • No CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Input current Current consumption, max. 25 mA Power loss Power loss Power loss Power loss Power loss Power space per module • Address space per module • Address space per module, max. 16 byte Hardware configuration	usable BaseUnits	BU type A0, A1
I I&M data I Isochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFIGURATION Operating mode Oversampling MSI No CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) permissible range pupper limit (DC) permissible range pupper limit (DC) permissible range pupper limit (DC) PROVER DESTINATION CUrrent consumption, max. 25 mA Power loss Power loss Power loss, typ. Address space per module Address space per module, max. 16 byte Hardware configuration	Color code for module-specific color identification plate	CC02
Isochronous mode Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode Oversampling No MSI No CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. Power loss Power loss Power loss, typ. Address space per module Address space per module, max. Hardware configuration	Product function	
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Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD	 Isochronous mode 	No
STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode Oversampling No MSI No CIR - Configuration in RUN Reparameterization possible in RUN No Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Ves Input current Current consumption, max. Power loss Power loss Power loss, typ. Address space per module Address space per module Address space per module, max. 16 byte Hardware configuration	Measuring range scalable	No
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PROFINET from GSD version/GSD revision Operating mode Oversampling No MSI No CIR - Configuration in RUN Reparameterization possible in RUN Reparameterization possible in RUN Reparameterization possible in RUN Reparameterization possible in RUN No Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. 25 mA Power loss Power loss, typ. 0.7 W Address space per module Address space per module, max. 16 byte Hardware configuration	 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
Operating mode Oversampling No MSI No CiR - Configuration in RUN Reparameterization possible in RUN Yes Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. 25 mA Power loss Power loss, typ. Address space per module Address space per module, max. 16 byte Hardware configuration	 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
Oversampling MSI MSI No CiR - Configuration in RUN Reparameterization possible in RUN Reparameterization possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. 25 mA Power loss Power loss, typ. Address space per module Address space per module, max. 16 byte Hardware configuration	PROFINET from GSD version/GSD revision	GSDML V2.3
● MSI No CiR - Configuration in RUN Reparameterization possible in RUN Yes Calibration possible in RUN No 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. 25 mA Power loss Power loss, typ. 0.7 W Address area Address space per module ● Address space per module, max. 16 byte Hardware configuration	Operating mode	
CiR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. 25 mA Power loss Power loss, typ. Address area Address space per module • Address space per module, max. Hardware configuration	 Oversampling 	No
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Calibration possible in RUN Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. Power loss Power loss, typ. Address area Address space per module • Address space per module, max. 16 byte Hardware configuration	CiR - Configuration in RUN	
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permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption, max. Power loss Power loss, typ. Address area Address space per module • Address space per module, max. Hardware configuration	Rated value (DC)	24 V
Reverse polarity protection Input current Current consumption, max. Power loss Power loss, typ. 0.7 W Address area Address space per module • Address space per module, max. Hardware configuration	permissible range, lower limit (DC)	19.2 V
Input current Current consumption, max. Power loss Power loss, typ. O.7 W Address area Address space per module • Address space per module, max. Hardware configuration	permissible range, upper limit (DC)	28.8 V
Current consumption, max. Power loss Power loss, typ. O.7 W Address area Address space per module • Address space per module, max. Hardware configuration	Reverse polarity protection	Yes
Power loss Power loss, typ. 0.7 W Address area Address space per module • Address space per module, max. 16 byte Hardware configuration	Input current	
Power loss, typ. Address area Address space per module • Address space per module, max. Hardware configuration	Current consumption, max.	25 mA
Address area Address space per module • Address space per module, max. 16 byte Hardware configuration	Power loss	
Address space per module • Address space per module, max. 16 byte Hardware configuration	Power loss, typ.	0.7 W
Address space per module, max. Hardware configuration 16 byte	Address area	
Hardware configuration	Address space per module	
	Address space per module, max.	16 byte
Automatic encoding Yes	Hardware configuration	
	Automatic encoding	Yes

* Type of microanizal coding element Selection of Bisseluni for connection * - "wire c	Mechanical coding element	Yes
Selection of BiaseUnit for connection variants 1 - 1-wire connection 2 - wire connection 2 - wire connection 3 - Wire connection 4 - But type A0, A1 Analog injustis 5 - For voltage measurement 5 - For voltage measurement 6 - For voltage measurement 7 - For voltage measurement 8 - For voltage measurement 9 - For voltage measurement 9 - For voltage measurement 9 - For voltage measurement 1 - Imput resistance (0 to 10 V) 1 - Input resistance (0 to 10 V) 1 - Input resistance (0 to 10 V) 1 - Input resistance (10 V to +10 V) 1 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 2 - Input resistance (10 V to +10 V) 3 - Input resistance (10 V to +10 V) 3 - Input resistance (10 V to +10 V) 4 - Input resistance (10 V to +10 V) 4 - Input resistance (10 V to +10 V) 4 - Input resistance (10 V to +10 V) 4 - Input resistance (10 V to +10 V) 4 - Input resistance (10 V to +10 V) 4 - Input resistance (10 V to +10 V) 4 - Input resistance (10 V to +10	_	
- Invite connection - 2-wire connection - 2-wire connection - 2-wire connection - 3-wire connection - 5-wire connection - 5-w		ypo b
- 2 wire connection - 3 Analog inputs - 5 For votage ineasurement - 5 For votage measurement - 6 For votage measurement - 7 For votage measurement - 8 8 - 8 8 - 8 9 - 8 9 - 9 Cot- 10 V - Cycle time (all channels), min 1 Ims, per channel - 1 Ims, per channe		BU type A0 A1
Number of analog inputs - For voltage measurement - For voltage input voltage for voltage input (destruction infin), max. - Voice time (all channels), min Inse, per channel - Inse, per channel - Input resistance (0 to 10 V) - Input resistance (0 to 10 V) - Input resistance (10 V to +10 V) - Integration and conversion time/resolution per channel - Resolution with overrange (10 tin including sign), max Integration time, parameterizable - Integration time, parameterizable - Integration time, parameterizable - Integration time (10 V to +10 V) - Integration time (10 V to +10 V		
Number of analog injusts • For voltage measurement permissible injust voltage for voltage injust (destruction limit), max. 20 Verbit (all channels), min. 1 ms; per channel 1 ms;		20 type 70, 7ti
Por voltage measurement permissible input voltage for voltage input (destruction limit), max. Cycle time (all channels), min. Input resistance (0 to 10 V)		9: Cingle anded
permissible input votage for vottage input (destruction limit), max. Cycle time (all channels), min. Input ranges (reted values), vottages • 0 to +10 V — Input resistance (0 to 10 V) - Input resistance (0 to 10 V) - Input resistance (-10 V to +10 V Yes; 15 bit 100 kΩ - Input resistance (-10 V to +10 V Yes; 16 bit incl. sign 100 kΩ - Input resistance (-10 V to +10 V) - Series (-10 V to +10 V Yes; 16 bit incl. sign 100 kΩ - Cable length • shelded, max. - Analog value generation for the Inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration and conversion time resolution per channel • Resolution with overrange (bit including sign), max. • Integration and conversion time (per channel) • Interference voltage suppression for interference frequency if in bit • Conversion time (per channel) • No Hondroof smoothing levels • Parameterizable • Number of smoothing levels • Parameterizable • Number of smoothing levels • For voltage measurement • For voltage measurement • For voltage measurement as 4-wire transducer • For voltage measurement as 4-wire transducer No **Prors/accuracies** Interdirection of signal encoders • For voltage measurement as 4-wire transducer • For voltage measurement as 4-wire transducer • Ves • Odo 8-kK - Grassials between the inputs, min. Fremperature error (relative to input range), (+/-) Orassials between the inputs, min. • Odo 8-kK - Grassials between the inputs, min. Fremperature error (relative to input range), (+/-) • Soften measurement as 4-wire transducer • Voltage, relative to input range, (+/-) • Soften measurement as 4-wire transducer • Voltage, relative to input range, (+/-) • Soften measurement as 4-wire transducer • Soften measurement as 4-wire transducer • Voltage, relative to input range, (+/-) • Soften measurement as 4-wire transducer • Of Diagnostic		
imit), max Cycle time (all channels), min. Input ranges (rated values), voltages • 0 to +10 V		
1 ms; per channel 1 ms; per channel 1 ms; per channel 1 mput ranges (rated values), voltages 0 to +10 V		30 V
Input ranges (rated values), voltages		1 ms; per channel
• 0 to +10 V		71
- Input resistance (0 to 10 V) • 10 V to +10 V Pres; 16 bit incl. sign - Input resistance (-10 V to +10 V) Cable length • shielded, max. Analog value generation for the Inputs Integration and conversion time/resolution per channel • Resolution with overange (bit Including sign), max. • Integration time, parameterizable • Resolution with overange (bit Including sign), max. • Integration time, parameterizable • Interference voltage suppression for interference frequency fi in Hz • Conversion time (per channel) • Number of smoothing levels • Number of smoothing levels • parameterizable • parameterizable • for voltage measurement • for voltage measurement sea 4-wire transducer • for voltage measurement as 25°C (relative to input range), (+/-) Consistals between the inputs, min. • 50 dB Repeat accuracy in steady state at 25°C (relative to input range) • Voltage, relative to input range, (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) • Voltage, relative to input range, (+/-) • Series mode interference (peak value of input range), min. Interruptical sponsatics status information Diagnostics Inclinion Alarms • Diagnostics latim • Limit value alarm • Ves • Wire-break • Monitoring the supply voltage • Wire-break • Monitoring of the supply voltage • Wire-break • Monitoring of the supply voltage • Wire-break • Monitoring of the supply voltage (PWR-LED) Pagendess of the supply voltage (PWR-LED) • Menitoring of the supply voltage (PWR-LED) Pagendess of the supply voltage (PWR-LED) • Menitoring of the supply voltage (PWR-LED)		Yes; 15 bit
10 V to +10 V	— Input resistance (0 to 10 V)	
Cabie length	• -10 V to +10 V	Yes; 16 bit incl. sign
Cable length • shielded, max. Analog value generation for the inputs Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration inteneraterizable • Interference voltage suppression for interference frequency ff in Hz • Conversion time (per channel) Smoothing of measured values • Number of smoothing levels • parameterizable Fincoder Connection of signal encoders • for voltage measurement • for ourient measurement as 4-wire transducer For voltage measurement • for ourient measurement as 4-wire transducer For special control of signal encoders • for voltage measurement • for current measurement as 4-wire transducer For special control of signal encoders • for voltage measurement • for ourient measurement as 4-wire transducer For special control of signal encoders • for voltage measurement as 4-wire transducer For special control of signal encoders • for voltage, elative to input range), (+/-) Temperature error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) 0.3 % Interference voltage suppression for f = n x (ft +/- 1 %), ft = interference frequency • Series mode interference (peak value of input range), min. Interrupts/diagnostics/status information Diagnostics function Pagnostics function Ves • Monitoring the supply voltage • Wire-break • Monitoring the supply voltage • Wire-break • Monitoring of the supply voltage • Vers • Overflow/underflow Pes • Monitoring of the supply voltage (PWR-LED) For the first of the probability of the supply voltage (PWR-LED) For the first of the probability of the supply voltage (PWR-LED) For the first of the probability of the supply voltage (PWR-LED)	— Input resistance (-10 V to +10 V)	
Analog value generation for the inputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Resolution with overrange (bit including sign), max. Integration time, parameterizable Resolution with overrange (bit including sign), max. Integration time, parameterizable Resolution with overrange (bit including sign), max. Is bit Is bi		
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency 1 in Hz Conversion time (per channel) 180 / 60 / 50 / 60 / 4 800 (16.67 / 50 / 60) frequency 1 in Hz Conversion time (per channel) 180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms Smoothing of measured values Number of smoothing levels parameterizable Yes Fronder Connection of signal encoders for current measurement as 4-wire transducer Frors/accuracies Linearly error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Sasic error limit (operational limit at 25 °C) Voltage, relative to input range, (+/-) Series mode interference (peak value of interference valted yalue of input range), min. Interference valted value of input range, (min) Diagnostics function Diagnostics function Pes No Diagnostics function Limit value alarm No Diagnoses Monitoring the supply voltage Vies Vies preserve Voltage relative to input range Ves Vire-break No Operational error Ves Ves Vire-break No Operational error Ves Vire-break No Operational operational LED Ves: green PWR LED	-	200 m
Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency 1 in Hz Conversion time (per channel) 180 / 60 / 50 / 60 / 4 800 (16.67 / 50 / 60) frequency 1 in Hz Conversion time (per channel) 180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms Smoothing of measured values Number of smoothing levels parameterizable Yes Fronder Connection of signal encoders for current measurement as 4-wire transducer Frors/accuracies Linearly error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Operational error limit in overall temperature range Voltage, relative to input range, (+/-) Sasic error limit (operational limit at 25 °C) Voltage, relative to input range, (+/-) Series mode interference (peak value of interference valted yalue of input range), min. Interference valted value of input range, (min) Diagnostics function Diagnostics function Pes No Diagnostics function Limit value alarm No Diagnoses Monitoring the supply voltage Vies Vies preserve Voltage relative to input range Ves Vire-break No Operational error Ves Ves Vire-break No Operational error Ves Vire-break No Operational operational LED Ves: green PWR LED	Analog value generation for the inputs	
Resolution with overrange (bit including sign), max. Integration time, parameterizable Integration time, parameterizable Integration time, parameterizable Conversion time (per channel) Iterature (p		
Integration time, parameterizable Interference voltage suppression for interference frequency 11 in Hz ◆ Conversion time (per channel) 180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms Smoothing of measured values • Number of smoothing levels • Number of smoothing levels • Parameterizable Tencoter Connection of signal encoders • for voltage measurement • for voltage measurement as 4-wire transducer No Errors/accuracies Linearity error (relative to input range), (+/-) Temperature error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) Interference voltage suppression for 1 = n x (11 +/- 1 %), 11 = interference frequency • Series mode interference (peak value of interference reace value of interference reace (realex value of interference reace) (realex value of interference (realex value of interference reace) (realex value of interference reace) (realex value of interference reace) Limit value alarm • Diagnostics function No Diagnostics function Alarms Diagnoses Monitoring the supply voltage Yes Wire-break No Overflow/underflow Yes Overflow/underflow Yes Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED	•	16 bit
 Interference voltage suppression for interference frequency ff in Hz Conversion time (per channel) 180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms Smoothing of measured values Number of smoothing levels parameterizable per smeterizable Tyes For voltage measurement for current measurement as 4-wire transducer for Signal encoders Linearity error (relative to input range), (+/-) Crosstalk between the inputs, min. for days from the first from t		
Smoothing of measured values • Number of smoothing levels • parameterizable • parameterizable • parameterizable • or voltage measurement • for current measurement as 4-wire transducer • for current measurement as 4-wire transducer Linearity error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range) • Voltage, relative to input range, (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) Operational error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) Osers mode interference voltage suppression for f = n x (ft +/- 1 %), ft = interference (requency • Series mode interference (peak value of input range), min. Interrupts/diagnostics/status information Diagnostics function Alarms • Diagnostics alarm • Limit value alarm No Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED)	• Interference voltage suppression for interference	
Number of smoothing levels		180 / 60 / 50 / 0.625 (67.5 / 22.5 / 18.75) ms
Number of smoothing levels		1007 007 007 01020 (01107 2210 1 1011 0) 1110
e parameterizable Encoder Connection of signal encoders • for voltage measurement • for current measurement as 4-wire transducer Errors/accuracies Linearity error (relative to input range), (+/-) Crosstalk between the inputs, min. Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) Basic error limit (poperational limit at 25 °C) • Voltage, relative to input range, (+/-) Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference (peak value of interference (peak value of interference < rated value of input range), min. Interrupts/dlagnostics/status information Diagnostics function Alarms • Diagnostics alarm • Limit value alarm No Diagnoses • Monitoring the supply voltage • Wire-break • Short-circuit • Overflow/underflow Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED)	-	4: None: 4/8/16 times
Encoder Connection of signal encoders • for voltage measurement as 4-wire transducer No Errors/accuracies Linearity error (relative to input range), (+/-) 0.01 % Temperature error (relative to input range), (+/-) 0.005 %/K Crosstalk between the inputs, min50 dB Repeat accuracy in steady state at 25 °C (relative to input range), (+/-) Operational error limit in overall temperature range • Voltage, relative to input range, (+/-) 0.5 % Basic error limit (operational limit at 25 °C) • Voltage, relative to input range, (+/-) 0.3 % Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency • Series mode interference (peak value of input range), min. Interrupts/diagnostics/status information Diagnostics function Yes Alarms • Diagnostic alarm Yes • Limit value alarm No Diagnoses • Monitoring the supply voltage Yes • Wire-break No Short-circuit No • Overflow/underflow Yes Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED	_	
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Diagnostics function Alarms Diagnostic alarm Limit value alarm No Diagnoses Monitoring the supply voltage Wire-break Short-circuit Group error Overflow/underflow Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes Yes Yes Yes Yes Yes Yes Ye		70 dB; With conversion time 67.5 / 22.5 / 18.75 ms: 40 dB
Alarms Diagnostic alarm Limit value alarm No Diagnoses Monitoring the supply voltage Wire-break Short-circuit Short-circuit Scroup error Overflow/underflow Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED	Interrupts/diagnostics/status information	
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Monitoring the supply voltage Wire-break No Short-circuit No Group error Overflow/underflow Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED	Limit value alarm	No
 Wire-break Short-circuit Group error Overflow/underflow Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED 	Diagnoses	
 Short-circuit Group error Overflow/underflow Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED 	 Monitoring the supply voltage 	Yes
 Group error Overflow/underflow Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED 	Wire-break	No
◆ Overflow/underflow Yes Diagnostics indication LED ◆ Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED	Short-circuit	No
Diagnostics indication LED ◆ Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED	Group error	Yes
Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED	Overflow/underflow	Yes
	Diagnostics indication LED	
Channel status display Yes; green LED	 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED
	 Channel status display 	Yes; green LED

 for channel diagnostics 	No
 for module diagnostics 	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
 between the channels 	No
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	No
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; < 0 °C as of FS04
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS04
 vertical installation, max. 	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.	31 g
last modified:	1/24/2021 🗗