Data sheet

6ES7532-5HD00-0AB0



SIMATIC S7-1500, analog output module AQ 4xU/I ST, 16-bit resolution accuracy 0.3%. 4 channels in groups of 4, diagnostics; substitute value; the module supports the safety-oriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 2 / PL c according to EN ISO 13849-1:2015. delivery including infeed element, shielding bracket and shield terminal: front connector (screw terminals or push-in) to be ordered separately

General information	
Product type designation	AQ 4xU/I ST
HW functional status	from FS04
Firmware version	V2.2.0
FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
 Isochronous mode 	No
 Prioritized startup 	No
Output range scalable	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V12 / V12
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
 PROFINET from GSD version/GSD revision 	V2.3 / -
Operating mode	
Oversampling	No
• MSO	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.	190 mA; with 24 V DC supply
Power	
Power available from the backplane bus	0.6 W
Power loss	
Power loss, typ.	4 W
Analog outputs	
Number of analog outputs	4
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	24 mA
Current output, no-load voltage, max.	22 V
Cycle time (all channels), min.	3.2 ms; independent of number of activated channels
Output ranges, voltage	
• 0 to 10 V	Yes

	Vec
• 1 V to 5 V	Yes
 -5 V to +5 V -10 V to +10 V 	No Yes
	res
Output ranges, current	Yes
 0 to 20 mA -20 mA to +20 mA 	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
for voltage output two-wire connection	Yes
for voltage output four-wire connection	Yes
for current output two-wire connection	Yes
Load impedance (in rated range of output)	100
with voltage outputs, min.	1 kΩ; 0.5 kOhm at 1 to 5 V
 with voltage outputs, capacitive load, max. 	1 μF
• with current outputs, max.	750 Ω
 with current outputs, inductive load, max. 	10 mH
Cable length	
 shielded, max. 	800 m; for current, 200 m for voltage
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	16 bit
Conversion time (per channel)	0.5 ms
Settling time	
 for resistive load 	1.5 ms
 for capacitive load 	2.5 ms
 for inductive load 	2.5 ms
Errors/accuracies	
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.002 %/K
Crosstalk between the outputs, max.	-100 dB
Repeat accuracy in steady state at 25 $^\circ\text{C}$ (relative to output range), (+/-)	0.05 %
note regarding accuracy	at temperatures below 0 °C, the figures for operating error and temperature error are doubled
Operational error limit in overall temperature range	
 Voltage, relative to output range, (+/-) 	0.3 %
 Current, relative to output range, (+/-) 	0.3 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to output range, (+/-) 	0.2 %
• Current, relative to output range, (+/-)	0.2 %
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
• Wire-break	Yes; Only for output type "current"
Short-circuit	Yes; Only for output type "voltage"
Overflow/underflow	Yes
Diagnostics indication LED	Voci groop LED
	Yes; green LED
ERROR LED	Yes; red LED
Monitoring of the supply voltage (PWR-LED)	Yes; green LED
Channel status display for channel diagnostics	Yes; green LED
for channel diagnostics for module diagnostics	Yes; red LED
for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	

 between the channels 	No
 between the channels, in groups of 	4
 between the channels and backplane bus 	Yes
 Between the channels and load voltage L+ 	Yes
Permissible potential difference	
between S- and MANA (UCM)	8 V DC
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes; From FS05
Highest safety class achievable for safety-related tripping of stand	lard modules
 Performance level according to ISO 13849-1 	PL d
 Category according to ISO 13849-1 	Cat. 3
SIL acc. to IEC 62061	SIL 2
 remark on safety-oriented shutdown 	https://support.industry.siemens.com/cs/de/en/view/39198632
product functions / security / header	
signed firmware update	No
data integrity	No
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; From FS06
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; From FS06
 vertical installation, max. 	40 °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	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	310 g

last modified:

Data sheet

6ES7532-5HF00-0AB0



SIMATIC S7-1500, analog output module AQ8xU/I HS, 16-bit resolution accuracy 0.3%, 8 channels in groups of 8, diagnostics; substitute value 8 channels in 0.125 ms oversampling; the module supports the safety-oriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 3 / PL d according to EN ISO 13849-1:2015. delivery including infeed element, shielding bracket and shield terminal: front connector (screw terminals or push-in) to be ordered separately

Figure similar

• 0 to 10 V	Yes
• 1 V to 5 V	Yes
• -5 V to +5 V	No
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
 for voltage output two-wire connection 	Yes
 for voltage output four-wire connection 	Yes
 for current output two-wire connection 	Yes
Load impedance (in rated range of output)	
 with voltage outputs, min. 	1 kΩ
 with voltage outputs, capacitive load, max. 	100 nF
 with current outputs, max. 	500 Ω
 with current outputs, inductive load, max. 	1 mH
Cable length	
• shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	16 bit
Conversion time (per channel)	50 µs; independent of number of activated channels
Settling time	
for resistive load	30 µs; see additional description in the manual
 for capacitive load 	100 μs; see additional description in the manual
for inductive load	100 μs; see additional description in the manual
Errors/accuracies	···· F., ···
Output ripple (relative to output range, bandwidth 0 to 50 kHz),	0.02 %
(+/-)	
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.002 %/K
Crosstalk between the outputs, max.	-100 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %
note regarding accuracy	at temperatures below 0 °C, the figures for operating error and temperature error are doubled
Operational error limit in overall temperature range	
Voltage, relative to output range, (+/-)	0.3 %
 Current, relative to output range, (+/-) 	0.3 %
Basic error limit (operational limit at 25 °C)	0.0 /0
Voltage, relative to output range, (+/-)	0.2 %
Current, relative to output range, (+/-)	0.2 %
Isochronous mode	400.00
Execution and activation time (TCO), min.	100 µs
Bus cycle time (TDP), min.	250 μs
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
 Monitoring the supply voltage 	Yes
Wire-break	Yes; Only for output type "current"
Short-circuit	Yes; Only for output type "voltage"
Overflow/underflow	Yes
Diagnostics indication LED	
RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
 Monitoring of the supply voltage (PWR-LED) 	Yes; green LED
Channel status display	Yes; green LED

 for channel diagnostics 	Yes; red LED
for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	
between the channels	No
 between the channels, in groups of 	8
 between the channels and backplane bus 	Yes
 Between the channels and load voltage L+ 	Yes
Permissible potential difference	
between S- and MANA (UCM)	8 V DC
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes; from FS04
Highest safety class achievable for safety-related tripping of star	ndard modules
 Performance level according to ISO 13849-1 	PL d
 Category according to ISO 13849-1 	Cat. 3
• SIL acc. to IEC 62061	SIL 2
 remark on safety-oriented shutdown 	https://support.industry.siemens.com/cs/de/en/view/39198632
product functions / security / header	
signed firmware update	No
data integrity	No
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; From FS03
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; From FS03
 vertical installation, max. 	40 °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	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	325 g
last modified:	3/12/2024

Data sheet

6ES7532-5NB00-0AB0



SIMATIC S7-1500, analog output module AQ 2x U/I ST, 16-bit resolution accuracy 0.3%. 2 channels in groups of 2, diagnostics; substitute value; the module supports the safety-oriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 2 / PL c according to EN ISO 13849-1:2015. delivery including front connector push-in, infeed element, shielding bracket and shield terminal

General information	
Product type designation	AQ 2xU/I ST
HW functional status	From FS01
Firmware version	V1.0.0
FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
Prioritized startup	No
Output range scalable	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V13 / V13.0.2
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
 PROFINET from GSD version/GSD revision 	V2.3 / -
Operating mode	
Oversampling	No
• MSO	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.	110 mA
Power	
Power available from the backplane bus	0.65 W
Power loss	
Power loss, typ.	2.7 W
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	24 mA
Current output, no-load voltage, max.	22 V
Cycle time (all channels), min.	3.2 ms; independent of number of activated channels
Output ranges, voltage	
• 0 to 10 V	Yes

• 1 V to 5 V	Yes
• -5 V to +5 V	No
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
for voltage output two-wire connection	Yes
for voltage output four-wire connection	Yes
 for current output two-wire connection 	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 kΩ; 0.5 kOhm at 1 to 5 V
 with voltage outputs, capacitive load, max. 	1 µF
 with current outputs, max. 	750 Ω
 with current outputs, inductive load, max. 	10 mH
Cable length	
• shielded, max.	800 m; for current, 200 m for voltage
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
Conversion time (per channel)	0.5 ms
Settling time	
for resistive load	1.5 ms
 for capacitive load 	2.5 ms
 for inductive load 	2.5 ms
Errors/accuracies	
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.002 %/K
Crosstalk between the outputs, max.	-100 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %
Operational error limit in overall temperature range	
 Voltage, relative to output range, (+/-) 	0.3 %
Current, relative to output range, (+/-)	0.3 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to output range, (+/-) 	0.2 %
 Current, relative to output range, (+/-) 	0.2 %
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	Vac
Diagnostic alarm Diagnoses	Yes
	Yes
 Monitoring the supply voltage Wire-break 	Yes; Only for output type "current"
Short-circuit	Yes; Only for output type "voltage"
Overflow/underflow	Yes
Diagnostics indication LED	
RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
Monitoring of the supply voltage (PWR-LED)	Yes; green LED
Channel status display	Yes; green LED
for channel diagnostics	Yes; red LED
for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	
between the channels	No
 between the channels, in groups of 	2
- ·	

 between the channels and backplane bus 	Yes
Between the channels and load voltage L+	Yes
Permissible potential difference	105
between S- and MANA (UCM)	8 V DC
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes; From FS02
Highest safety class achievable for safety-related tripping of standard	
Performance level according to ISO 13849-1	PL d
Category according to ISO 13849-1	Cat. 3
SILCL according to IEC 62061	SIL 2
product functions / security / header	SIL 2
	No
signed firmware update	No
data integrity Ambient conditions	NO
Ambient temperature during operation	20.40 f
horizontal installation, min.	-30 °C; from FS04
horizontal installation, max.	00 °C
• vertical installation, min.	-30 °C; from FS04
vertical installation, max.	40 °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	25 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	200 g
Other	
Note:	Supplied incl. 40-pole push-in front connectors

last modified:

Data sheet

6ES7532-5ND00-0AB0



SIMATIC S7-1500, analog output module AQ 4xU/I HF, 16-bit resolution accuracy 0.1%, 4 channels in groups of 1, common mode voltage: 30 V AC/60 V DC, diagnostics; substitute value, isochronous mode; the module supports the safety-oriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 3 / PL d according to EN ISO 13849-1:2015. delivery including infeed element, shielding bracket and shield terminal: front connector (screw terminals or push-in) to be ordered separately

General information	
Product type designation	AQ 4xU/I HF
HW functional status	From FS01
Firmware version	V1.1.0
FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	Yes
Prioritized startup	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V14 / -
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
 PROFINET from GSD version/GSD revision 	V2.3 / -
Operating mode	
Oversampling	No
• MSO	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)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	160 mA; with 24 V DC supply
Power	
Power available from the backplane bus	0.95 W
Power loss	
Power loss, typ.	5 W
Analog outputs	
Number of analog outputs	4
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	24 mA
Current output, no-load voltage, max.	22 V
Cycle time (all channels), min.	125 µs; independent of number of activated channels
Output ranges, voltage	
• 0 to 10 V	Yes
• 1 V to 5 V	Yes

• 5 \/ to +5 \/	No
● -5 V to +5 V ● -10 V to +10 V	No Yes
Output ranges, current • 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	Ver
for voltage output two-wire connection	Yes
for voltage output four-wire connection	Yes
for current output two-wire connection	Yes
Load impedance (in rated range of output)	
• with voltage outputs, min.	1 kΩ; 0.5 kOhm at 1 to 5 V
with voltage outputs, capacitive load, max.	1 µF
with current outputs, max.	750 Ω
with current outputs, inductive load, max.	10 mH
Cable length	
• shielded, max.	800 m; for current, 200 m for voltage
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
Conversion time (per channel)	125 µs; independent of number of activated channels
Settling time	
 for resistive load 	0.2 ms; see additional description in the manual
 for capacitive load 	1.8 ms; see additional description in the manual
 for inductive load 	2 ms; see additional description in the manual
Errors/accuracies	
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %
Linearity error (relative to output range), (+/-)	0.015 %
Temperature error (relative to output range), (+/-)	0.002 %/K
Crosstalk between the outputs, max.	-100 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.005 %
Operational error limit in overall temperature range	
 Voltage, relative to output range, (+/-) 	±10 V; 0 V to 10 V: ±0.12%; 1 V to 5 V: ±0.1%
Current, relative to output range, (+/-)	±20 mA; 0 mA to 20 mA: ±0.2%; 4 mA to 20 mA: ±0.12%
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output range, (+/-)	0.06 %
• Current, relative to output range, (+/-)	0.1 %
Isochronous mode	
Execution and activation time (TCO), min.	100 µs
Bus cycle time (TDP), min.	250 µs
Interrupts/diagnostics/status information	200 μ3
	Yes
Diagnostics function Substitute values connectable	Yes
	Tes
Alarms	Vec
Diagnostic alarm	Yes
Diagnoses	No.
Monitoring the supply voltage	Yes
• Wire-break	Yes; Only for output type "current"
Short-circuit	Yes; Only for output type "voltage"
Overflow/underflow	Yes
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
 Monitoring of the supply voltage (PWR-LED) 	Yes; green LED
Channel status display	Yes; green LED
 for channel diagnostics 	Yes; red LED
for module diagnostics	Yes; red LED
Potential separation	
Potential separation channels	

between the channels	Yes
 between the channels, in groups of 	1
 between the channels and backplane bus 	Yes
 Between the channels and load voltage L+ 	Yes
Permissible potential difference	
between different circuits	60 V DC/30 V AC; insulation rated for 120 V AC basic insulation: between the channels and the supply voltage L+; between the channels and the backplane bus; between the channels
Isolation	
Isolation tested with	2 000 V DC between the channels and the supply voltage L+; 2 000 V DC between the channels and the backplane bus; 2 000 V DC between the channels; 707 V DC (type test) between the supply voltage L+ and the backplane bus
product functions / security / header	
data integrity	No
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-25 °C; From FS02
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-25 °C; From FS02
 vertical installation, max. 	40 °C
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	300 g
last modified:	3/12/2024

last modified:

Data sheet

6ES7532-8TF00-0AB0



SIMATIC S7-1500, analog output module AQ 8xHART HF, 16-bit resolution, accuracy 0.2%, 8 channels in groups of 8 diagnostics, substitute values, delivery including infeed element, shielding bracket and shield terminal; front connector (screw terminals or push-in) to be ordered separately

General information		
Product type designation	AQ 8xHART HF	
HW functional status	From FS01	
Firmware version	V1.0.0	
• FW update possible	Yes	
Product function		
• I&M data	Yes; I&M0 to I&M3	
Isochronous mode	No	
Prioritized startup	No	
Output range scalable	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V18 and V19 with HSP0423	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1	
 PROFINET from GSD version/GSD revision 	V 2.43 / -	
Operating mode		
Oversampling	No	
• MSO	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 (rated value)	280 mA; 8x 20 mA with 750 ohm load resistance	
Current consumption, max.	370 mA	
Power		
Power available from the backplane bus	0.6 W	
Power loss		
Power loss, typ.	4.8 W; 8x 20 mA with 750 ohm load resistance	
Analog outputs		
Number of analog outputs	8	
Current output, no-load voltage, max.	30 V	
Cycle time (all channels), min.	5 ms; independent of number of activated channels	
Output ranges, current		
• 0 to 10 mA	No	
• 0 to 20 mA	Yes	

• 4 mk box main Yes Connection of aduators Yes Connection of aduators Yes Connection of aduators Yes Instrument of box more connection Yes Instrument of option, max. 70 0 Instrument option, max. 800 m Acade you agromation for the outputs 800 m Section on the output of agromation of the output of agromation of agromation of agromation in the manual 800 m Section of the output fange, bandwidth 0 to 50 kHz, 0.02 % 100 S Constata Keream the output fange, handwidth 0 to 50 kHz, 0.02 % 100 S Constata Keream the output fange, (+/) 0.02 % 100 S Research action of an output fange, (+/) 0.02 % 100 S Research action of an output fange, (+/) 0.02 % 100 S Research action of a output fange, (+/) 0.02 % 100 S Research action of a output fange, (+/) 0.02 % 100 S 100 S 100 S </th <th>• -20 mA to +20 mA</th> <th>Νο</th>	• -20 mA to +20 mA	Νο
constraint only the over connection Yes • for current output, inside range of output) Total constraint output, inside range of output) • with current output, inside range of output) Total constraint output, inside range of output) • with current output, inside range of output) Total constraint output, inside range of output) • with current output, inside range of output Total constraint output, inside range of output • with output output, inside range of output Total constraint output • with output output, inside range of output output Total constraint output • with output output output Total constraint output • with output o		
Last projections (in valid many of output) with current outputs, inductive load, max. in the Cable inguit unit ductive load, max. solid ductive load sonid ductive	Connection of actuators	
Loss investion of which may and output of the set of t		Yes
• with current outputs, max.750 D• with current outputs, max.10 mHCable length0 mH• chelded, max.80 m• chelded, max.10 bH• chelded with overange (bH including sign, max.• for sign additional description in the manual• is chelded with overange (bH including sign, max.• for sign additional description in the manual• or resistive load• for sign additional description in the manual• or resistive load• for sign additional description in the manual• or resistive load0 02 %• or resistive load0 02 %• Constalk between the output range, (+f)0 1 % <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td>	· · · · · · · · · · · · · · · · · · ·	
• with current coiputs, inductive load, max.10 mHCable length800 mAnalog current for for for doubuts800 mEnded concersion timeresolution per channel10 bitSecontian own time overninge (bit including sign), max.10 bitSecontian own time overninge (bit including sign), max.10 bitFor resolution with overninge (bit including sign), max.3 mix, see additional description in the manual• for inductive load3 mix, see additional description in the manual• for inductive load3 mix, see additional description in the manual• for inductive load3 mix, see additional description in the manual• for inductive load3 mix, see additional description in the manual• for inductive load3 mix, see additional description in the manual• for inductive load3 mix, see additional description in the manual• for inductive load out range, (+-)0.02 %.• Linearly error (relative to output range, (+-)0.02 %.• Corstalt between the output, max100 dB• Repeat accurreryat temperatures below 0 °C, the figures for operating error and temperature• outrent, relative to output range, (+-)0.2 %.• Outrent, relative to output range, (+-)0.2 %.• Descriptional intra overati temperature range-• outrent, relative to output range, (+-)0.9 %.• Outrent, relative to output range, (750 Ω
calability calability and conversion intervesticion per channel Integration and conversion intervesticion per channel - Rescalation and conversion intervesticion per channel Is bit - Rescalation and conversion intervesticion per channel Is bit - Or cassible badd 3 ms; see additional description in the manual - Or restave load 3 ms; see additional description in the manual - Error intervesticion conversion in the output, range, (+1) 0.02 % - Constatile between the output, range, (+2) 0.02 % - Constatile between the output, range, (+2) 0.02 % - Constatile between the output, range, (+2) 0.02 % - Constatile between the output, range, (+2) 0.02 % - Constatile between the output, range, (+2) 0.02 % - Constatile between the output, range, (+2) 0.02 % - Constatile between the output, range, (+2) 0.02 % - Constatile between the output, range, (+2) 0.22 % - Constatile between the output, range, (+2) 0.22 % - Constatile between the output, range, (+2) 0.23 % - Constatile between the output, range, (+2) 0.24 % - Constatile between the output, range, (+2) 0.24 % -	•	10 mH
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Setting time • for resistive load * for resistive load * for reductive load<td> Resolution with overrange (bit including sign), max. </td><td>16 bit</td>	 Resolution with overrange (bit including sign), max. 	16 bit
• for inductive load 3 ms; see additional description in the manual Error-lacuracides 0.022 % Output right (reliable to output range), (+/-) 0.022 % Crosstalk between the outputs, max, (+/-) 0.002 % K Crosstalk between the outputs, max, (+/-) 0.002 % K Crosstalk between the outputs, max, (+/-) 0.02 % note regarding accuracy attemperatures below 0 °C, the figures for operating error and temperature arror are actual actuality note regarding accuracy attemperatures below 0 °C, the figures for operating error and temperature arror are actuality Potentional error limit in overall temperature arror attemperatures below 0 °C, the figures for operating error and temperature arror are actuality Balace more limit (potential limit al 25 °C) attemperatures below 0 °C, the figures for operating error and temperature arror are actuality Balace more limit (potential limit al 25 °C) attemperatures below 0 °C, the figures for operating error and temperature arror are actuality Balace more limit (potential limit al 25 °C) attemperatures below 0 °C, the figures for operating error and temperature arror are actuality Balace more limit (potential limit al 25 °C) attemperatures below 0 °C, the figures for operating error and temperature arror are actuality Balace more limits (potenting) Yes	Settling time	
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product functions / security / header signed firmware update Yes	Standards, approvals, certificates	
signed firmware update Yes		No
	product functions / security / header	
data integrity No	signed firmware update	Yes
	data integrity	No

Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C
 vertical installation, max. 	40 °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	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	300 g
last modified:	7/2/2024 🖸