600-252-7BH21



Analog-input-module, U, 16 Bit, Iso.

8x

- Channels electrically isolated from each other and from the backplane bus
- Measuring ranges 0 ... 10 V, 1 ... 5 V, ±10 V, ±5 V, ±2.5 V, individually configurable for each channel
- Measurement resolution: up to 15 bits + sign
- Diagnostic messages
- Wire break detection (for 1 ... 5V)
- Limit value alarms for each channel
- A bi-color LED (blue/red) indicates the module operating status and any malfunctions
- Red/green bi-color LEDs (one for each channel) indicate the channel status
- 4 analog inputs for measuring voltage
- 4 process input words

Info

Analog input modules for the modular fieldbus IO system TB20. Note: Individual modules cannot be combined with IO systems from other manufacturers. The scope of delivery already includes the appropriate front connector for the cabling and a base module. The module has 8 analog inputs. Parameters for the module: Diagnostic alarm: On | OffOverflow / underflow diagnosis: On | OffRepresentation values: SIMATIC* S7 | SIMATIC* S5 | INT16 Parameters for each channel: Wire break detection (only for 4 ... 20 mA): On | OffInterference frequency suppression: None | 10 Hz | 50 Hz | 60 Hz | 400 HzMeasuring ranges: Deactivated | 0 ... 20 mA | 4 ... 20 mA | ±20 mALimit value alarms enabled: On | OffUpper/lower limit: 16 bit analog value (±27648) * SIMATIC is a registered trademark of Siemens AG.

Technical data

General information	
Order number	600-252-7BH21
Article name	AI 8x U ,±10 V, 0–10 V, 1–5 V, Iso., 16 bit
Scope of delivery	AI 8x U ,±10 V, 0–10 V, 1–5 V, Iso., 16 bit
Dimensions (DxWxH)	110 x 25 x 73 mm
Weight	Approx. 110 g
Number of inputs	8
Internal	Max. 140 mA
Power dissipation	Max. 1 W
Parameter configuration length	24 bytes
General error indicator	Red LED
Hot-swap capable	Yes
Electrical isolation	
from the backplane bus	Yes
Between the channels	Yes
Measuring	
Measuring ranges / load resistance	0 ... 10 V / 2 Mohms,
Measuring method	Integration
Measurement resolution	15 bits + sign
Interference frequency suppression	None | 10 Hz | 50 Hz | 60 Hz | 400 Hz
Refresh rate / conversion rate	Depends on the interference frequency suppression setting being used:
Diagnoses	Upper measuring range limit exceeded (overflow), lower measuring range limit fallen below (underflow), wire break (for 1 ... 5 V only), parameter assignment error
Process alarms	Upper and lower limit per channel
Error limits	
Operational error limit in the entire temperature range	±0.2 % relative to the nominal range
Basic error limit at 25 °C	±0.1 % relative to the nominal range
Temperature error	±0.005 %/K relative to the nominal range
Linearity error	±0.05 %/K relative to the nominal range
Repeating accuracy in steady state at 25 °C	±0.05 %/K relative to the nominal range
Ambient conditions	
Ambient temperature	0 °C ... +60 °C
Transport and storage temperature	-20 °C ... +80 °C
Relative air humidity	95 % r H without condensation
Protection rating	IP 20
Certifications	CE, UL
UL	
Surrounding Air Temperature	0 °C ... +60°C
Pollution degree	2
CE	
Noise immunity	DIN EN 61000-6-2 "EMC Immunity"
Interference emission	DIN EN 61000-6-4 "EMC Emission"
Vibration and shock resistance	DIN EN 60068-2-6:2008 „Vibration", DIN EN 60068-2-27:2010 „Shock"