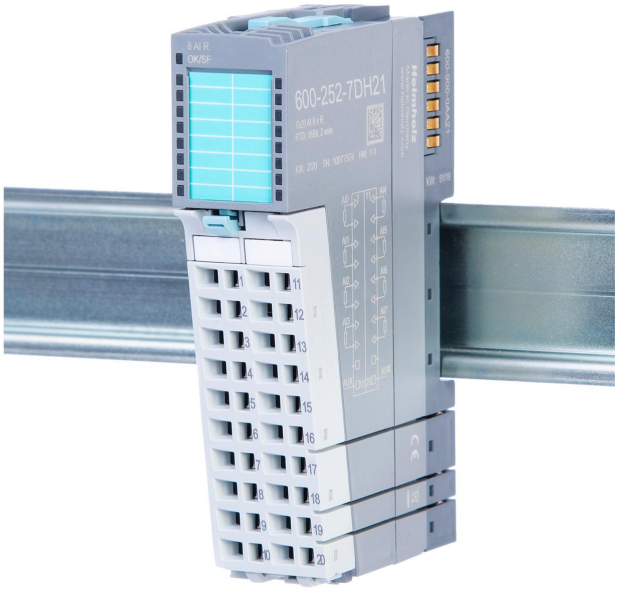
600-252-7DH21



Analog-input-module, U 100V, Iso., 16 Bit 8x

- Potential separation between the channels and to the backplane bus
- Measuring ranges 0 ... 100 V, ±100 V adjustable per channel
- Measuring resolution up to 15 bit + VZ
- Diagnostic messages
- Limit value alarms for each channel
- Display of operating status and faults via two-color LED (blue/red)
- Status display per channel via two-color LED (red/green)
- 8 analog inputs for measuring voltage
- 8 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: Noise frequency suppression: None / 10 Hz / 50 Hz / 60 Hz / 400 HzMeasuring range: deactivated / 0 ... 100 V / ±100 VLimit value alarms active: On / OffUpper / lower limit value: 16 bit analog value (±27648) * SIMATIC is a registered trademark of Siemens AG.

Technical data

General information	
Order number	600-252-7DH21
Article name	AI 8x U, ±100 V, 0-100 V, Iso., 16 Bit
Scope of delivery	AI 8x U, ±100 V, 0-100 V, Iso., 16 Bit
Weight	Approx. 110 g
Number of inputs	8
Internal	Max. 140 mA
Power dissipation	Max. 1 W
Parameter configuration length	44 Bytes
General error indicator	Red LED
Electrical isolation	
from the backplane bus	Yes
Between the channels	Yes
Measuring	
Measuring ranges / load resistance	0 ... 10 V/2 MOhm
Measuring method	Integration
Measurement resolution	15 bits + sign
Interference frequency suppression	Depending on the interference frequency suppression:
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), 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
Certifications	
UL	508