

SIPLUS CMS - HARDWARE IFN ANALOGINPUT ACQUISITION OF
ANALOG SIGNALS 6*ADC; +/-10V; 192KHZ; IP67



General information	
Product brand name	SIPLUS
Product designation	IFN Analoginput
Product description	Up to six analog input signals can be measured with the IFN AI.
Installation type/mounting	
Mounting type	standard rail
Mounting accessories	Mounting bracket, can be ordered as option
Required clearance	
<ul style="list-style-type: none"> for side-by-side mounting at the front 	80 mm
<ul style="list-style-type: none"> for side-by-side mounting at the top 	25 mm
<ul style="list-style-type: none"> for side-by-side mounting at the back 	25 mm
Supply voltage	
Design of the power supply	stabilized
Rated value (DC)	24 V
permissible range, lower limit (DC)	18 V
permissible range, upper limit (DC)	32 V
Reverse polarity protection	Yes
Overvoltage protection	max. 35 V

Input current	
from external supply (24 V DC), max.	0.2 A
Power	
Active power input, max.	4.8 W
Analog inputs	
Number of analog inputs	6
Designation of the analog input	CH1 ... CH6
Measured variable	Voltage
Connector type	Connector plug 5-pole (M12)
Electrical input frequency, min.	0 Hz
Electrical input frequency, max.	96 kHz
Overvoltage strength, min.	-60 V
Overvoltage strength, max.	60 V
Short-circuit detection	No
Input ranges (rated values), voltages	
• At DC, min.	-10 V
Input ranges (rated values), currents	
• with DC	0.012 mA
Analog value generation for the inputs	
Parameterizable down sampling frequencies	4 / 8 / 16 / 24 / 48 / 64 / 96 kHz
Sampling frequency, max.	192 kHz
Integration and conversion time/resolution per channel	
• Resolution with override range (bit including sign)	16 bit
Errors/accuracies	
Relative measuring accuracy for analog input signals, min.	-0.5 %
Relative measuring accuracy for analog input signals, max.	0.5 %
Crosstalk attenuation between analog input signals at 1 kHz	-90 dB
Signal-to-noise ratio for analog input signals	-80 dB
Interfaces	
Number of interfaces	3
Transmission rate	400 Mbit/s
Protocols	
Protocol	IEEE 1394a/b
Potential separation	
Potential separation analog inputs	
• Potential separation analog inputs	Yes

Degree and class of protection	
IP degree of protection	IP67
Standards, approvals, certificates	
CE mark	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Use in hazardous areas	
• ATEX	Yes
• IECEx	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-40 °C
• max.	65 °C
Ambient temperature during storage/transportation	
• Storage, min.	-40 °C
• Storage, max.	85 °C
• Transportation, min.	-40 °C
• Transportation, max.	85 °C
Connection method	
Design of electrical connection for the PE conductor	M4 screw with contact washer
• Connectable conductor cross-section for PE terminal	2.5 mm ²
Design of plug-in connection	Connector plug 8-pole (M12)
Design of the pin assignment of the inputs	Male connector 5-pole (M12)
Mechanics/material	
Material of housing	aluminum
Dimensions	
Width	86 mm
Height	210 mm
Depth	87 mm
Width when mounted on DIN rail	86 mm
Height when mounted on DIN rail	210 mm
Depth when mounted on DIN rail	96 mm
Weights	
Weight (without packaging)	1.23 kg
last modified:	05/31/2017