

The Analog Input Module Is A Crucial Component Designed To Facilitate The Integration Of Analog Signals Into The Plc System It Receives Analog Signals From A Diverse Array Of External Devices Including Sensors Transmitters Gauges Variable Frequency Drives Vfds Thermocouples And Transducers Extra Through These Inputs We Are Able To Opti- mally Control And Monitor The Vital Processes Within The Plant Environment This Prod- uct Is A 16 Channel Analog Input Module Designed With Galvanic Isolation Across Four Distinct Groups Each Comprising Four Channels



General Information

AI_Variant	AIS830-14C02CV04G-04GIND	AIS830-12C04CV04G-04GIND	AIS830-16C00CV04G-04GIND
No. of Analog Input	16 Channels		
Type Of Analog Input	14 Channels 4-20mA 2 Channels 0-20 mA OR 0-10VDC Selectable	12 Channels 4-20mA 4 Channels 4-20 mA OR 0-10VDC Selectable	16v Channels 0-20mA
Hardware Functional Status	From Jul22		
Firmware Version	1.00.001		
Firmware Update Possible	Yes		
Engineering Software	Codesys V3 5 Sp 19 And Above		
Mounting	Base Unit Tbus Pppppppp		

Isolation

Galvanic Isolation	Yes
Galvanic Isolation Group	04
Channel In Group	04

Power Supply

Power Supply From	Top Side De Coded Plug In Screw Terminal
Normal Supply Voltage	24 Vdc
Low Supply Voltage	18.5 Vdc
High Sypply Voltage	28.5
Reverse Polarity Protection	Yes
Input Current	0.4 AMP
Input Current Per Channel Permissible	21.5 mA
Transmitter Power	Yes
Power Loss	0.245 W

Range			
Input Range	0-20 mA		
Input Range	4-20 mA		
Input Range	-	0-10 mA	-
Mesasurning Range	Scalable		
Input Resistance	120 Ω		

Configuration In Running	
Perameterization In Run	Yes
Calibration In Run	Yes

Hardware Configuration	
Automatic Encoding	No
Mechanical Coding Element	Yes

Conversion Principle	
Analog Input Measuring Principle	Sigma Delta Integrating

Inteagation And Conversion Time Per Channel	
Resolution With Over Range Max	12 Bit
Conversion Time Per Chen-nal	100 Ms

Error	
Linearity Error	0.1% (Input Range)
Operational Error	0.5% (Input Range)
Basic Error	0.3% (Input Range)

Interference Voltage Seperation	
Series Mode Interference	Min 70dB
Common Mode Voltage	Max 10 V
Common Mode Interference	90 dB

Alarm	
Diagnostics Alarm	Yes
Limit Alarm	Yes

Diagnostic	
Function Of Diagnostic	Available

Diagnostics Messages	
Wire-Break	Yes(4-20mA)
Short Circuit	Yes
Channel Diagnostic	Yes

LED	
Power Of Indication	Yes
Channel Status	No
Channel Diagnostics(Wire Break Joint)	No
Module Diagnostics (Back Plan Comm)	Yes

Potential Seperation	
Seperation Between Channel	Yes
Seperation Between Backplane	No
Seperation Between Channel And System Power Supply	No
Insulation Tested With	Yes

Ambient Condition	
Horizontal Installation	Min 0 Degree Celcius
Horizontal Installation	Max 60 Degree Celcius
Vertical Installation	Min 0 Degree Celcius
Vertical Installation	Max 60 Degree Celcius

Connection	
Field Connection	37 Pin D_Sub Connector
Power Connection	5 Pin Pheonix Plug In Connector (D-Coded)

Other Information	
Cable Length Max.	500 MTR. Max Of 1.0 SQMM Cable, Shielded
Address Space Per Module	32 Bytes
Dimension (W x H x D)	25 x 122 x 115
Weight	160g Approx