Product. Name:16 Channel Analog Input Module

Rev.: 00

Product. Code: S830-16C00CV04G04GIND

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 variable frequency drives etc. Through these inputs we are able to optimally control and monitor the vital processes within the plant environment, this product is a 16-channel analog input module designed with galvanic isolation of 16 channel in a group.

General Information

No. of Analog Input	16 Channels
Type Of Analog Input	0/4-20 mA
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 Same As DI & DO

Isolation & Protection

Galvanic Isolation	Yes
Galvanic Isolation Group	04 Group
Channel In One Group	04 Channel/Group
Output Short Circuit Protection	Yes For Each Channel
Input Over- Current Protection	Yes (40 mA)

Power Supply

Power Supply From	Top Side D- Coded Plug-In Screw Terminal
Normal Supply Voltage	24 Vdc
Low Supply Voltage	21.6 Vdc
High Sypply Voltage	26.5
Reverse Polarity Protection	Yes
Module Input Current	0.5 AMP
Input Current Per Channel Permissible	25 mA
Transmitter Power	Yes
Power Loss	0.245 W

Range

Input Range	0-20 mA
Input Range	4-20 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 Principal	Sigma Delta (Integrating)

Integeration And Conversion Time Per Channel

Resolution With Over Range Max	12 Bit
Conversion Time Per Chennal	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

Diagnostic Alarm	YES
Limit Alarm	YES

Diagnostic

Function Of Diagnostic	Available
Module Fuse Blown Indication	Yes

Diagnostic Messages

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

LED

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

Potential Seperation

Seperation Between Channel	Yes (Group Isolation) In Group of 4 Channel
Seperation Between Backplane	Yes
Seperation Between Channel And System Power Supply	Yes
Insulation Tested With	500 VDC

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
Dimention (W x H x D)	25 x 122 x 115
Weight	160g Approx