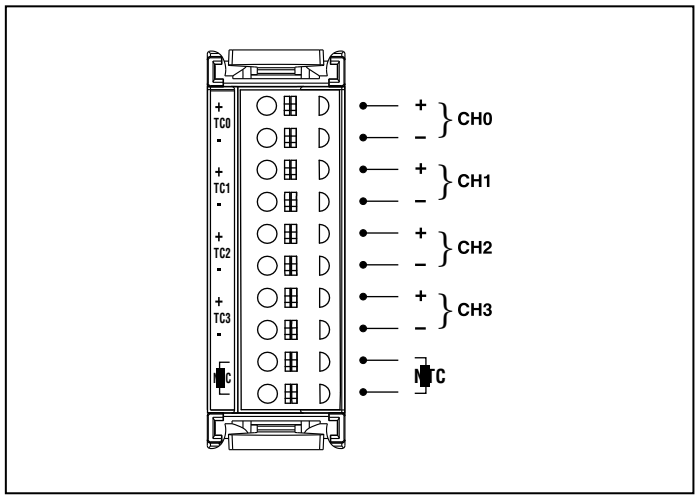
Features :

- **Plug in module**
- **Easy to connect & replace in Flexys GT35, Flexys rail, Flexys panel TX4 & EXP FLEX 2M**
- **Configured via selpro software**
- **Spring type pluggable terminals**

Technical specifications

No. of channels	4 channels
Sensor type	J,K,T,R,S,C,E,B,N,L,U,W, PLATINEL II, MILLIVOLT(5 to 65mV)
Measurement range	As per sensor selection
Type of input	Non - differential
Temperature resolution	0.1°C
Input impedance in signal range	≥330 kΩ
Accuracy	0.25% of full scale ±1°C
Non linearity	0.25% of full scale ±1°C
Non linearity	0.1% of full scale ±1°C
Protection against polarity inversion	NA
Channel isolation	No
Ambient operating temperature	0°C to 55°C
Humidity	95%
Ambient storage temperature	-20°C to 70°C
Weight	40 gms

Terminal connection



Ordering information

FL-SC-AI04-TC-CE -RoHS	4 Channel - analog inputs card - thermocouple	RoHS compliant

Features:

- **Plug in module**
- **Flexible I/O Card selection for customized applications**
- **Easy integration and replacement across all Flexys Series modules**
- **Equipped with spring-clamp terminals for secure and tool-free wiring**
- **Windows-Based Software for configuration in Ladder Programming**

Technical specifications

No. of channels	4	
Output range	0-10V DC	0-20mA DC
Resolution	10 Bit	
Load Limit	0-10V DC ≥ 1kΩ	0-20mA <= 500Ω
Digital Resolution	0.0-100.0% = 0–10.000V DC	0.0–100.0% = 0–20.000mA
Conversion Time	100ms	
Isolation (CPU ↔ Output)	No	
Isolation (Output ↔ Output)	No	
Output Error @ 25°C	±0.25% of Full Scale	
Linearity	0.10%	
Operating Temp	0°C to 55°C	
Storage Temp	-20°C to 70°C	
Humidity	10% to 95% RH (Non-condensing)	
IP rating	Terminals: IP20	
Weight	45 grams	
Mounting	Pluggable	
Terminal	Pluggable, Spring fit	
Dimensions in mm (WHD)	22 x 65 x 95	
Supply Voltage	Self Powered	

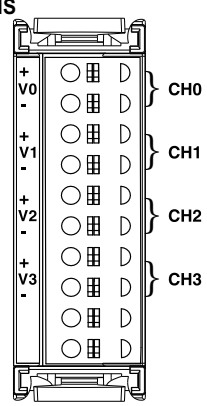
Note :

1. Refer to the IO card and base module compatibility guidelines to ensure effective and valid IO card combinations.

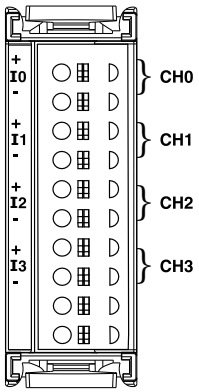
2. Use of RO and AO cards are limited in 230VAC variants. Mixed usages for RO/AO limits are auto-managed in Selpro settings or refer to product manual for details

Terminal connection

FL-SC-AO04-V-CE-RoHS



FL-SC-AO04-I-CE-RoHS



Ordering information

FL-SC-AO04-V-CE-RoHS	4 Channels Analog Output Card-Voltage	
FL-SC-AO04-I-CE-RoHS	4 Channels Analog Output Card-Current	

Features:

- **Plug-in Module**
- **Flexible I/O Card Selection for customized applications**
- **Easy integration and replacement across all Flexys Series modules**
- **Equipped with spring-clamp terminals for secure and tool-free wiring**
- **Windows-Based Software for configuration in Ladder Programming**

Technical specifications

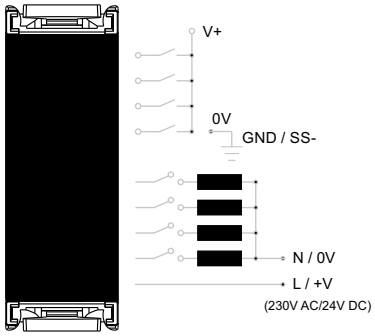
No. of Inputs	4	–		
Input Type	PNP	–		
Voltage Range	7 - 30V DC	–		
Input Current	5.5mA @24V	–		
Debounce Time	Programmable 1 - 255 ms (Default: 10 ms)	–		
Isolation (Power ↔ Input)	Yes	–		
Isolation (CPU ↔ Input)	No	–		
Protection against Polarity Inversion	Yes	–		
Timer Accuracy	0.1% or 2 ms (Whichever Greater)	–		
Response Time	Typical 10 mSec (Based on ladder scan time)	–		
No. of Channels	–	6	1	3
Input Type	–	3 - NTC, 3 - 0-20mA	0-10V / 0-20mA (Jumper selectable)	J, K, T, R, S, C, E, B, N, L, U, W, PLTNL, mVolt (-5 to 65mV), 0-10V, 0-20mA, RTD (Jumper selectable)
Accuracy	–	0.25% ± 1°C (TC), 0.1% ±1°C (RTD) at 25°C, ±0.25% of FS. ±1 count for AI's, ±2°C for NTC		
Resolution	–	12 bit		
Conversion Time	–	TC - 100ms, RTD - 300ms, 0-10V - 100ms, 0-20mA - 100ms, NTC - 100ms		
Linearity	–	0.10%		
Max Non-Destructive Input	–	AIV= 17V, AII=31mA		
Isolation (Power ↔ Input)	–	Yes		
Isolation (CPU ↔ Input)	–	No		
Channel-to-Channel Isolation	–	No		
Reverse Polarity Protection	–	TC - Yes, RTD - N/A, 0-10V - YES, 0-20mA - YES, NTC - YES		
Input Impedance	–	TC - >330KΩ, RTD - >510KΩ, 0-10V - >330KΩ, 0-20mA - >100Ω, NTC - >2KΩ		

Relay Output			
No. of Outputs	4 (NO) type Relay, 1 Common Lines)	–	
Contact / Output Rating	5A @ 250V AC (resistive load), 5A @ 30V DC (resistive load)	–	
Relay / Output Type	SPST	–	
Isolation (CPU ↔ Output)	2.5 kV	–	
Isolation (Output ↔ Output)	NA	–	
Short Circuit Protection	–	–	
Polarity Inversion Protection	–	–	
Response Time	20 ms	–	
Mechanical Life	5 Million Operations	–	
Analog Output			
No. of Channels	–	1	2
Output Range	–	0–10 V DC / 0-20 mA DC	
Resolution	–	10 Bit	
Load Limit	–	0-10V DC ≥ 1 kΩ, 0-20mA <= 500 Ω	
Digital Resolution	–	0.0-100.0% = 0-10.000V DC, 0.0-100.0% = 0-20.000mA	
Conversion Time	–	100 ms	
Isolation (CPU ↔ Output)	–	NO	
Isolation (Output ↔ Output)	–	NO	
Output Error @ 25°C	–	±0.25% of Full Scale	
Linearity	–	0.10%	
Environmental			
Operating Temp	0°C to 55°C		
Storage Temp	-20°C to 70°C		
Humidity	10% to 95% RH (Non-condensing)		
IP rating	Terminals: IP20		
Mechanical			
Weight	45 grams		
Mounting	Pluggable		
Terminal	Pluggable, Spring fit		
Dimensions in mm (WHD)	22 x 65 x 95		
Power			
Supply Voltage	Self Powered		

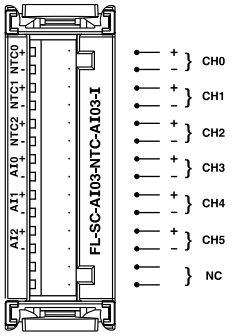
Note:
1. Refer to the IO card and base module compatibility guidelines to ensure effective and valid IO card combinations.
2. Use of RO and AO cards are limited in 230VAC variants. Mixed usages for RO/AO limits are auto-managed in Selpro settings or refer to product manual for details

Terminal connection

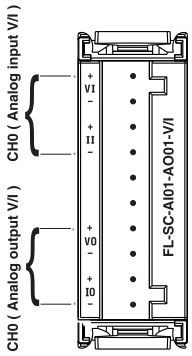
FL-SC-DI04-RO04-CE-RoHS



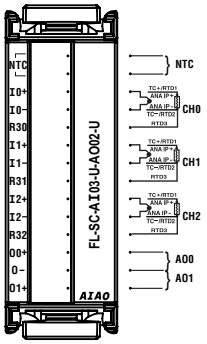
FL-SC-AI03-NTC-AI03-I



FL-SC-AI01-AO01-V/I



FL-SC-AI03-U-AO02-U



Ordering information

FL-SC-DI04-RO04-CE-RoHS	Flexys IO - 4 Digital Input & 4 Digital Output Card	RoHS compliant
FL-SC-AI03-NTC-AI03-I	Flexys IO - 3 Channel Analog Inputs - NTC, 3 Channel Analog Inputs - Current Card	RoHS compliant
FL-SC-AI01-AO01-V/I	Flexys IO - 1 Channel Analog Inputs, 1 Channel Analog Output (Voltage/Current)	RoHS compliant
FL-SC-AI03-U-AO02-U	Flexys IO - 3 Channel Analog Input - Universal, 2 Channel Analog Output - Universal Card (Jumper Selection)	RoHS compliant

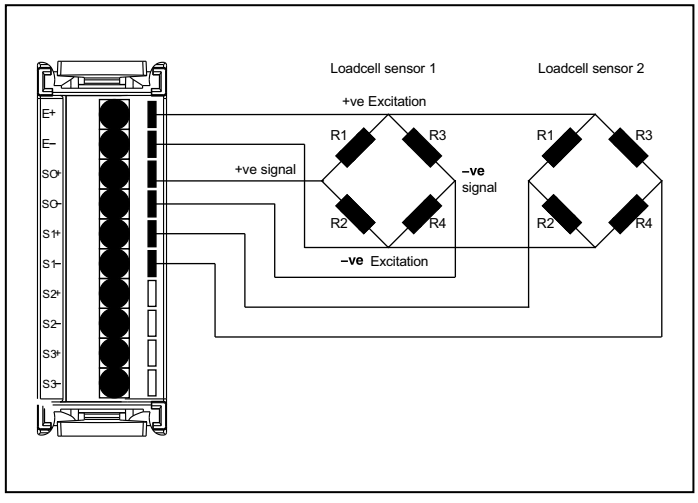
Features :

- **Plug in module**
- **Easy to connect & replace in flexys GT35, Flexys rail, Flexys panel TX4 & EXP FLEX 2M**
- **Configured via selpro software**
- **Spring type pluggable terminals**

Technical specifications

No. of channels	4 channels
Measurement range	±19.5mV, ±39mV, ±1.25V, ±2.5V
Excitation output voltage	5V DC ±10%
Type of input	Differential
Digital resolution	24 bits
Applicable sensor type	4 Wire
Input offset drift	100nV/°C
Temperature coef. span	±2.5ppm/°C
Linearity error	±0.05% full scale
Gain error	0.1%
Gain drift	3ppm/°C
Conversion time	50ms to 400ms (User configurable)
Permitted load cell resistance	350Ω
Common mode rejection @50/60 Hz	50ms to 400ms (User configurable)
Ambient operating temperature	0 °C to 55 °C
Humidity	95%
Ambient storage temperature	-20 °C to 70 °C
Weight	40 gm

Terminal connection



Ordering information

FL-SC-LC04	4 channel loadcell input card	RoHS compliant in process