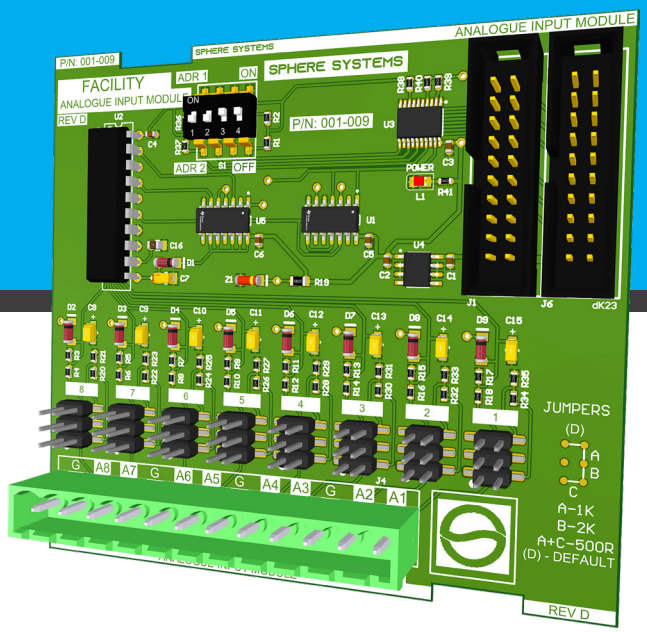
SPHERE SYSTEMS

DATASHEET
FACILITY RANGE



ANALOGUE INPUT

The Analogue Input card provides a total of 8 analogue inputs, each equipped with a 12-bit resolution capability, facilitating precise & accurate measurements..

These inputs offer a voltage range spanning from 0-10VDC, which permits the comprehensive monitoring of varying voltage levels for potential alarm input triggers.

Notably, the input impedance for each of these inputs exceeds 100kΩ, ensuring minimal disruption to the measured signals.

Furthermore, to enhance signal fidelity, the inputs offer 50Hz anti-aliasing filtering, effectively curbing frequencies beyond 2Hz. This strategic integration safeguards against aliasing artifacts while allowing the acquisition of reliable and distortion-free data.

SPECIFICATIONS

Physical

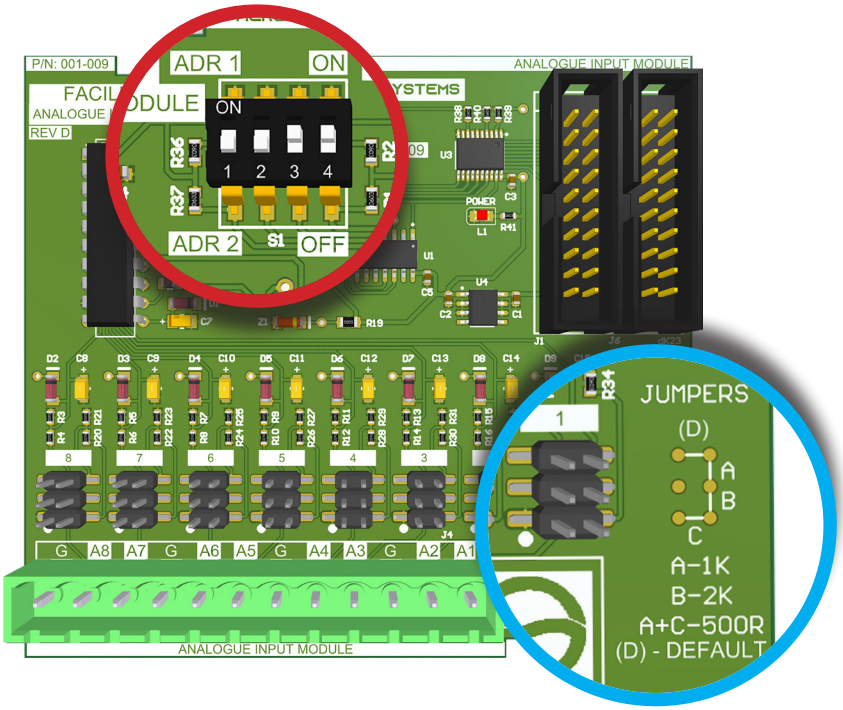
Width	82.6mm (3.25")
Length	92mm (3.62")
Height	15mm (0.59")
Mounting	3TK2 Series SnapTrack
Degree of Protection	IPXX

No need for fans, heat sinks, or heat dissipation methods.

Connections

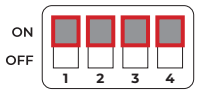
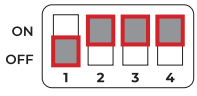
Inputs	12-Way 5mm Pitch Pluggable Connector
Expansion Bus	20-Way 2 Row Flat Cable IDC Socket

SWITCH SETTINGS



DIP Switch Configuration

DIP switches are used to define the I/O addresses

	Address: 0 I/Os: 9 - 16
	Address: 1 I/Os: 17 - 24

Jumper Configuration

Jumpers are used for converting 0-20mA/4-20mA signals to 0-10V signals.

 A	1kΩ resistance, suits 24V 0-20mA signals
 B	2kΩ resistance, suits 48V 0-20mA signals
 A+C	500Ω resistance, suits 12V 0-20mA signals
 D	Default, no resistance (Not required.)