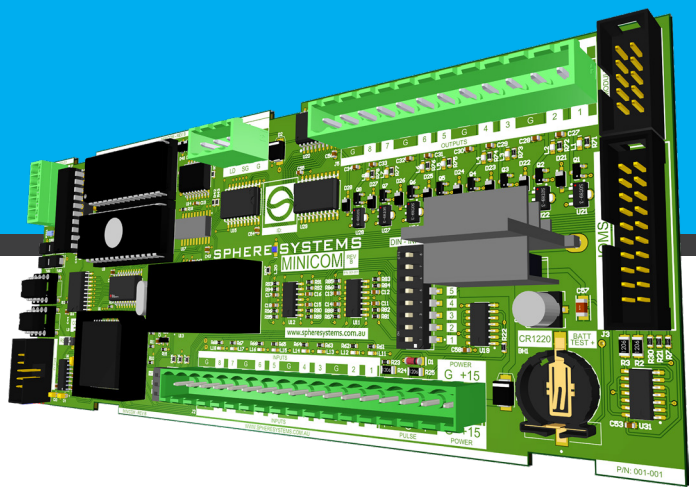
SPHERE SYSTEMS

DATASHEET
FACILITY RANGE



MINICOM MC311

A versatile control system with up to 40 inputs, including 8 universal analog/digital and 0-10V options, and up to 40 outputs with illuminating LEDs. With a ±1 minute per month crystal clock, supported by battery-backed memory.

Detachable terminals ease connections. Built-in algorithms ensure operation during network outages, enhancing reliability.

Ideal for diverse applications, it offers accurate timekeeping, adapts to inputs, and simplifies setup. Expansion modules enhance capabilities, to utilise the maximum inputs and outputs of the controller.

Additional input channels support data collection, crucial in industries with extensive parameter monitoring.

Module flexibility accommodates specific input/output types, aligning with industry needs. Empowering the system to oversee more control actions, boosting performance and versatility.

FEATURES

- 0-10V Analogue Inputs
- Digital Inputs (volt free) with Pulse Counting
- Digital Outputs
- Analogue Outputs
- Analogue Variables
- Digital Variables
- On/Off Switch/Window Control Functions (Discrete Loops)
- Time Clocks
- P,PI Functions
- Logic Functions
- Delay Functions
- Lead/Lag Functions
- Arithmetic Functions
- Alarms with Paging Facility

SPECIFICATIONS

Physical

Width	82mm (3.25")
Length	91mm (3.58")
Height	20mm (0.78") (w/o Connectors)
Mounting	3TK2 Series SnapTrack
Degree of Protection	IPXX

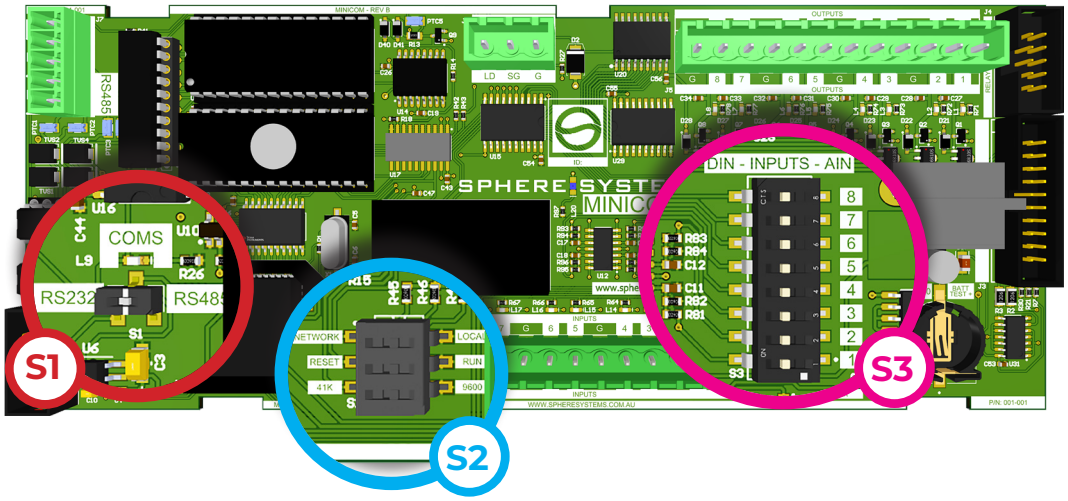
No need for fans, heat sinks, or heat dissipation methods.

Connections

Power Supply	15VDC | 250mA
Power	5-Way 5mm Pitch Pluggable Connector
IOs	12-Way 5mm Pitch Pluggable Connector
Relay Module	10-Way 2 Row Flat Cable IDC Socket
HMI	3-Way 5mm Pitch Pluggable Connector
Comms (RS485)	5-Way 5mm Pitch Pluggable Connector
Comms (RS232)	10-Way 2 Row Flat Cable IDC Socket
IOMs Expansion Bus	20-Way 2 Row Flat Cable IDC Socket

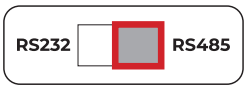
SPHERE SYSTEMS

SWITCH SETTINGS



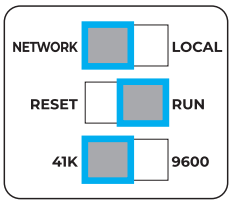
S1: Communications Configuration

DIP switch is used to select between Serial and Modbus protocols



S2: Initialisation & Network Configuration

DIP switches are used to configure the network type, Run/Reset functions and baud rate.



S3: Input Type Configuration

DIP switches are used to define input types. (Digital/Analogue)

