

Product Specification

MLC 9000+ Four Loop Controller Module



Each four Loop Module is an independent PID controller with 4 input and 6 outputs. Up to a max of eight Loop Modules can be connected to a single Bus Module making it possible to have up to 32 loops of independent control. Mixed installations of Single, Three and Four Loop Modules are possible. Each Loop Module can be removed and replaced (Hot Swapped) whilst the process is running.

- Heat/Cool operation
- Process & Loop Alarms
- 100ms Scan Time
- Soft Start
- Universal Input
- Hot Swapping with auto loop Configuration



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Technical Data

Process Input

Function Thermocouple

RTD DC Linear

Measuring Accuracy

Input sample rate Sensor Break Detection Outputs

Relay Outputs

SSR Driver Outputs

Environmental Specifications

Supply Voltage
Ambient Temperature
Storage
Relative Humidity
Dimensions
Mounting
Approvals & Certifications

One loop temperature or DC process input. Type and scale user selectable

B, N, J, R, K, S, L, T Spans from -240°C to +1759°C (-400°F to +3198°F) dependent on T/C type

3-Wire PT100, NI120 Spans from -199.9°C to +800.3°C (-327.3°F to 1472.5°F)

0-20mA, 4-20mA, 0-50mV, 10-50mV, 0-5V, 1-5V, 0-10V, 2-10V. Scaleable –32000 to +32000

DC = $\pm 0.1\%$ of span ± 1 LSD. RTD = $\pm 0.1\%$ of span, $\pm 0.3^{\circ}$ C. Thermocouple = $\pm 0.1\%$ of span, $\pm 1^{\circ}$ C for CJC, $\pm 0.3^{\circ}$ C for 0.1° C resolution ranges, or 1° C for 1° resolution ranges 10Hz (100msec)

Break detected within two seconds. Control outputs turn to off (0% power). Alarms activate

Contact type: Single Pole Single Throw (SPST) Rating: 2A resistive @ 120/240VAC Lifetime: >500000 operations at rated voltage/current

Drive Capability: 12VDC nominal (10V minimum), at up to 20mA Isolation: Isolated from process input and relay outputs. Not isolated from each other, other similar outputs or linear outputs in the same system.

Powered by Bus Module within its operating condition

0C to 55C (32F to 131F) -20C to 80C (-4F to 176F)

30% to 90% non condensing (operation and storage)

Width: 22mm, Height: 100mm, Depth: 120mm. Weight: 0.15kg

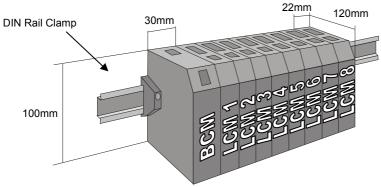
DIN rail mounting via supplied interconnect module (EN50022, DIN46277-3) EMC: Certified to EN61326. Safety: Complies with EN61010 and UL 3121-1



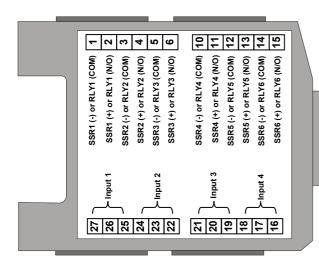
Authorised distributor: Ward Industries Limited

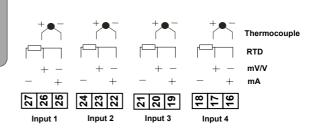
Tel: +44 (0) 1933 624963 Fax: +44 (0) 1933 625458
Email: sales@wardindustries.co.uk Web: www.wardindustries.co.uk

System Dimensions

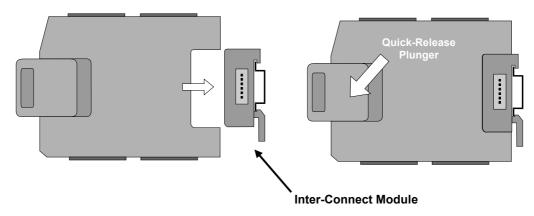


Connection Details





LCM Mounting Details



Order Code

MLC 9000-Z4610 MLC 9000-Z4620 Four Universal inputs, six SSR outputs Four Universal inputs, six relay outputs

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

MLC 9000+ Four Loop Module - 05/04





