

## TECHNICAL OVERVIEW

An LDCA is an expansion module which can occupy positions on the RS485 bus of the sub-network managed by an MF1000. The main function of the LDCA is to drive control loops which use devices such as motorized valves and dampers to regulate temperature, humidity, pressure etc.

The setpoint for a control loop is generated by the MF1000 and is sent to the LDCA over the RS485 sub-network bus

## FEATURES

- Battery backup is not required
- Default setpoints can be entered
- The process sensor for the control loop operated must be connected to the LDCA
- Any Analogue/Digital Input can be used for logic interlocking anywhere in the system
- Control loop outputs can be 3 point incremental PI via onboard relays
- Control loop outputs can be via 0..10v DC outputs
- Any relays not configured for control loops can be switched via the MF1000 independently
- In comms failure the LDCA will use the last setpoint setting received from the MF1000 for control

## SPECIFICATION

<b>Power Supply:</b>	24v 50Hz 12VA
<b>Configuration:</b>	A PCB card designed for mounting onto a DIN rail or back plate of a control panel
<b>Dimensions:</b>	204mm x 142mm x 45mm
<b>Digital Inputs:</b>	4 – Must be volt free for monitoring or meters (4 max)
<b>Digital Outputs:</b>	8 – SPDT output relays, contacts/track rated 8/10 amp 230V AC resistive
<b>Analogue Inputs:</b>	8 – For Ambiflex NTC sensors, 0..10v DC
<b>Analogue Outputs:</b>	2 – 0..10v DC
<b>Electrical:</b>	Screened cable for all Digital/Analogue Inputs and Analogue Outputs earthed at the controller end only
<b>Connections:</b>	2.5mm <sup>2</sup> pluggable terminals
<b>Communications:</b>	RS485 bus to MF1000 – 3 core screened cable
<b>Country of Origin:</b>	UK
<b>Product Code:</b>	LDCA

## SUPPORT

<b>Technical Support:</b>	Yes
<b>Spares:</b>	No longer available

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### AMBIFLEX DATA SHEET:

**LDCA**  
**MF1000 Expansion Module**