

GC 1719 ACR

Staamalo Room Controller

- **Room Temperature control** of one *Staamalo* air-cooled coldstore rooms using a PID loop to control the dampers.
- **PID loop** continually adjusts the room & bypass dampers to achieve the required setpoint for the Calculated Product Ratio temperature. These rooms do not need to defrost.
- **Product Ratio Temperature** is calculated from the difference between the room Discharge and Return air temperatures using a variable Product Ratio % parameter
- **Room Dampers** are continually controlled using open and close relay signals..
- **Damper position** is calculated from the net time accumulated opening or closing the dampers.
- **Bypass damper** open and close signals are the inverse of the room dampers open and close signals.
- **Alarm monitoring and data logging** is available via RS485 MODBUS communication links.



H 86 x L 156 x D 59 mm

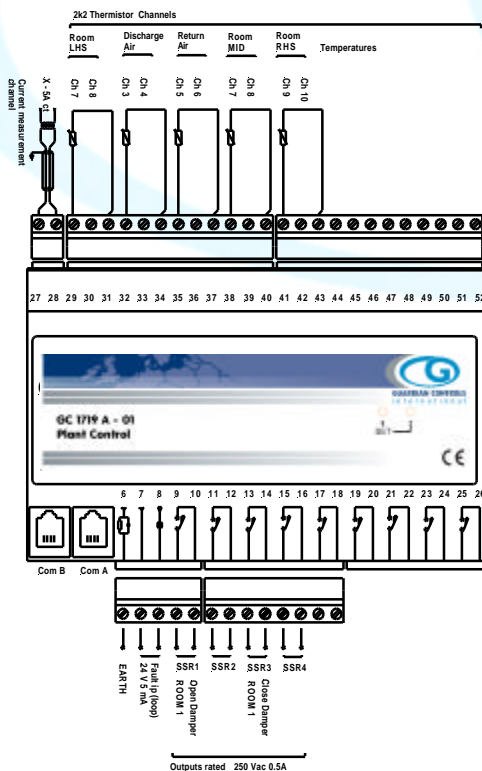
GC1719 Plant Control

Communications

Two independent serial links communicate all values and settings to a Guardian *'Consultant'* SCADA system and an optional LCD-8 local setup and alarm monitor display panel.

Both links use RS485 MODBUS RTU protocol at 19200 baud. A 'SET' lamp and button on the top of each unit allows setup of the Modbus Address.

GC1719 ACR Staamalo single AC Room Control



Options

LCD-8 Alarm Monitor panel provides LCD display and pushbutton selections for alarm indication, parameter setup and value display.

IPM-3 Internet Protocol (IP) module is available to provide Modbus over TCP/IP when local area network communications are required.

SPECIFICATION		GC1719
General		
Power		24Vdc/ac 0.2A
Operation		0 to 50 °C
Dimensions	Height	86 mm
	Length	156 mm
	Depth	59 mm
Mounting		DIN rail
Connectors		
Terminals	size type	47 5.08mm 2-part Screw clamp
Power and RS485		2 4-way sockets
Input/Output signals		
temperatures	16	2K2 thermistor (-40 to 40 C)
current input	1	XXX:5 Amp CT
Fault input	1	contact (loop) 24vdc 5ma
control relays (n/o)	5	230Vac 3 A
SSR solid state relays	4	230Vac 0.5 A
Communications		
communication links	2	RS485 19200 baud
protocol	1	Modbus RTU
Approvals		CE
Order Part No.		GC1719

GC1719 2-ACR Staamalo Overview

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