# ADAZ01 LM1 HQ

# Ventilation Plant, Heating

Use

# Synco™ 100 RLM162



### **Supply Air Temperature Control**

Air handling unit with heating coil, frequency inverter controlled supply and extract fans

- Office buildings
- Public buildings
  - Stores
  - Theatres



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Data sheet

N1910

Product No.

QBM66..

Qty.

1

Device list	Legend	Type of unit	Data sheet	Product No.	Qty.
	N1	Air duct temperature controller, AC 24 V, 2 outputs DC 010 V	N3332	RLM162	1
	N2	Variable Speed Drive for pumps and fans	N5111 +	G120P	1
	B1	Air duct differential pressure sensor, 0250 Pa / 0500 Pa	N1910	QBM66.202	1
	F1	Frost monitor, 2-point	N1284	QAF81	1
	Y1	2- or 3-port valve	+	VV / VX / M	1
		Modulating valve actuator, AC 24 V, DC 010 V	+	S6	1

#### Variants

LegendType of unitB1aDifferential pressure sensor, DC 0...10 V



Parameter settings		Function	No	Setting	DIP switch settings		
		RLM162 (controller N1)					
		Operating mode	1	Single stage heating	OFF		
			2		OFF		
1 2 3 4 5	6	Application (P/PI)	3	Supply air control (MEDIUM)	OFF		
de /PI	est np		4	PI integral action time = 180 s	OFF		
Te no	Col	Test	5	Test mode = OFF	OFF		
Op. App	Compensation	6	Not used	OFF			

Note

Press "P" and then "Fn" to round up r0000 Press "P" to access the display

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Engineering notes RLM162	<ul> <li>Default values have been used whenever possible</li> <li>Some settings are plant-specific and may need altering after the initial commissioning of the controller</li> <li>We have not shown all plant interlocks in the connection diagram; only those directly connected to the controllers or associated equipment</li> <li>To check the control wiring, the controller can be switched into test mode (DIP switch 5 = ON) so that the response of the actuating device can be checked. In test mode, the rotary knob position drives the output between DC 010 V</li> <li>If the control is unstable, increase the proportional band; if it is too slow, decrease the proportional band</li> <li>An operating voltage of AC 24 V is necessary for the controller. The required transformer capacity should be determined by adding together the power consumption of the individual items</li> </ul>
Engineering notes G120P	<ul> <li>The speed of the fan motor shall be controlled via the integrated PID controller within the G120P</li> <li>A digital input is required to start / stop the fan</li> <li>Error messages are available via relay output DO0</li> <li>Indication of the operating state is available via relay output DO2</li> <li>The drive needs to be turned on or off by a digital input. This can be done individually depending on the plant or application</li> <li>This is a multi-motor application. Please check the commissioning guide for application note</li> </ul>