Scan. Order. Done. Details on page A1.

Johnson

Controls



KINC Honeywell



Pneumatic Receiver-Controllers and Modular Controllers

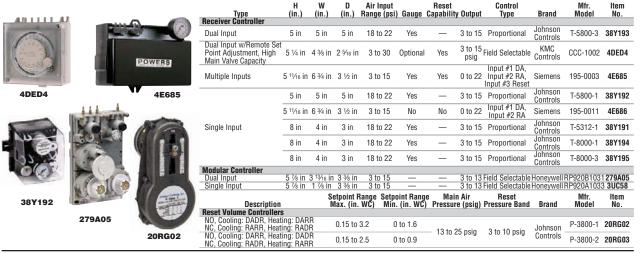
Johnson Controls—38Y191 directly controls dampers, valves, and other devices in a pneumatic transmission system from a remote transmitter. 20RG02 is a pressure independent submaster device for regulating air flow in VAV boxes. 20RG03 controls the output volume in response to a reset signal from a thermostat or other master controller.

KMC—For use with pressure switches, receiver gauges, relays, and temperature transmitters to control valves and actuators, including low-limit applications.

Siemens—Use to control temperature, humidity, and pressure of mechanical equipment in commercial buildings. Feature internal restrictors for transmitter inputs and plug-in air connectors. Setpoint can be reset.

Honeywell—

Use with remote sensors to provide proportional (P) or proportional plus integral (P+I) control of temperature, humidity, pressure, or dew point.



13F615





3-way

Series V11 models can be mounted in any position and are for use in applications where the operation of a pneumatically-operated device is dependent upon an electrical circuit.

Contact	Control Air	Air		IVITr.	item
Action			voitage		No.
NO / NC			_		38Y207
	15 to 19 psi	1/4 in Barb	_	V-6135-3	38Y208
	2 to 4 psi	1/4 in Barb	_	V-6135-1	38Y206
	0 to 25 psi	1/8 in NPT	120V AC	V-2410-2	38Y204
		1/4 in Barb	120V AC	V11HAA-100	38Y197
		¼ in Barb			38Y198
		1/4 in Barb	220/240V A0	CV11HBA-100	38Y199
		1/4 in Barb	208V AC	V11HCA-100	38Y201
		¼ in Barb			38Y202
		1/4 in Barb	277V AC	V11HFA-100	20RG21
		1/4 in Barb	24V AC	V11HGA-100	13F615
NO	1 to 20 psi	1/4 in Barb	_	V-6040-1	38Y205
	Action NO / NC	Pressure	NO / NC Pressure Connec.	NO / NC Pressure Connec. Voltage	NO / NC No / No



Variable Air Volume (VAV) Control Kits

Contain all components necessary for field replacement of pneumatic controls for each indicated application. For kit contents go to Grainger.com®.

Setnoint Range

Application	Model	ntem No.
Cooling Only	KIT-1001	4DDY4
Fan Power and Electric Reheat	KIT-1002	4DDY5
Fan Power and Hot Water Reheat Up to 22.5K BtuH	KIT-1003	4DDY6
Fan Power with Hot Water Reheat Up to 55K BtuH	KIT-1004	4DDY7



Variable Air Volume (VAV) Controller Submasters and Sensors

Thermostat

SUBMASTERS

- Main air pressure: 15 to 30 psig
- Output sensitivity: 5 psi/0.02" WC
- Setpoint range min.: 0" WC
- Adjustable min./max. velocity limits
- Push-on fittings for 1/4" O.D. tubing
- Mounting bracket included

CSC-2000 Series—Designed for use on VAV terminal units in HVAC systems. 4DDZ2 has a 0 to 10 molded plastic reference dial.

CSC-3000 Series—Universal replacement for more than 85% of OEM-supplied direct- and reverse-acting pneumatic VAV volumereset controllers shipped since 1980. Reset start point factory set at 8 psig for 4DDZ8 and 4DDZ9; 3 psig for 4DEA1; and 10 psig for 4DEA2.

DIFFERENTIAL PRESSURE FLOW SENSORS

- 1/2" exterior length
- 1/4" push-on nipple

For use with VAV controllers and \%" O.D. polyethylene tubing. Easily installed through 7/8" dia. hole in duct.

Control		red for	(in.		Reset	Air	Mfr.	Item
Type	Cooling	Heating	Min.	Max.	Pressure Band	Consumption	Model	No.
Subma	sters							
DA	DA	RA	0 to 1	Min + 1	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2001	4DDZ2
DA	DA	RA	0 to 1	Min + 1	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2003	4DDZ3
RA	RA	DA	0 to 1	0 to 1	3 ±0.5 to 8 psig	14.4 SCIM at 20 psig	CSC-2004	4DDZ4
DA	DA	RA	0 to 1	Min + 1	8 ±0.5 to 13 psig	11.5 SCIM at 20 psig	CSC-2007	4DDZ5
RA	RA	DA	0 to 1	0 to 1	3 ±0.5 to 8 psig	11.5 SCIM at 20 psig	CSC-2008	4DDZ6
DA	DA	RA	0 to 2	Min + 2	8 ±0.5 to 13 psig	14.4 SCIM at 20 psig	CSC-2009	4DDZ7
DA/RA	DA/RA	DA/RA	0 to 1	Min to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3011-10	4DDZ8
DA/RA	DA/RA	DA/RA	0 to 2	Min to 2	0 to 10 psig	46.1 SCIM at 20 psig	CSC-3025-10	4DDZ9
DA/RA	DA/RA	DA/RA	0 to 1	Min to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3021-10	4DEA1
DA/RA	DA/RA	DA/RA	0 to 1	Min to 1	0 to 10 psig	28.8 SCIM at 20 psig	CSC-3023-10	4DEA2

Туре	Insertion Length (in.)	Overall Length (in.)	Mounting Flange	Hole Center to Center (in.)	Mfr. Model	Item No.		
Differential Pressure Flow Sensors, 1/4 in Thick Foam Gasket Included								
1 Sensing Point	3 5/32 in	4 in	31/2 x 11/4 in	2 ¾ in	SSS-1002	4DEA3		
2 Sensing Points	5 13/32 in	6 in	41/2 x 11/4 in	3 ¾ in	SSS-1003	4DEA4		
3 Sensing Points	7 ²¹ / ₃₂ in	8 in	51/2 x 11/4 in	4 ¾ in	SSS-1004	4DEA5		
4 Sensing Points	9 ²⁹ / ₃₂ in	10 in	61/2 x 11/4 in	5 ¾ in	SSS-1005	4DEA6		

VAV Control Sensor Kit, Includes One 31/2/L (80 mm) sensor, 1 Sensing Point (SSS-1002), One 51/4/2/L (137 mm) Sensor, 2 Sensing Points (SSS-1003), One 72/4/2/L (195 mm) Sensor, 3 Sensing Points (SSS-1004), One 29/4/2/L (252 mm) Sensor, 4 Sensing Points (SSS-1005) Installation Guide

KIT-1005 4DDY8



Mounting