

P215LR/BR/TR Series**Single/Dual/Triple Input Pressure Actuated**

The P215LR is a single pressure input, the P215BR is a dual pressure input and the P215TR is a triple pressure input fan speed controller for air cooled condensers with respectively single, dual and triple refrigerant circuits.

The controller varies the fan speed by directly sensing the pressure changes of one, two or three separate refrigerant circuits. The setpoint of each pressure transducer can be separately adjusted. The controller selects the input with the greatest cooling demand to control the fan speed.

The controllers can be used in non corrosive refrigerant systems and vary the supply voltage to the motor from 45% to ≥95% of the supplied voltage using the phase cutting principle. It is recommended to confirm with the electric motor manufacturer if a controller using the phase cutting principle for speed variation can be used. If the pressure drops below the adjusted setpoint minus the proportional band, the output to the motor is zero volt or the adjusted min. speed setting.

FEATURES

- Condenser pressure control by fan speed variation
- Model with heat pump input available
- Transducers with proven reliability
- Easy accessible setpoint screw
- Adjustable minimum speed or cut-off selection (only on LR and BR models)
- Dual pressure input (BR models)
- Triple pressure input (TR models)



Ordering Codes	Range (bar)	P.B (bar)	Setpoint (bar)	Pressure Conn. (Style†)	Notes	List Price
3 Amp Rating						
P215LR-9110	14-24	4	16	90cm cap. (style 50)	A, B	£179
P215LR-9111	8-14	2.5	10			£191
P215LR-9130	Bulk pack version of type P215LR-9110 (15 pcs)					£179
P215LR-9210	14-24	4	16	Direct mount (47)		£191
P215LR-9610				Direct mount (style 51)		£156
P215LR-9611	8-14	2.5	10			£156
P215LR-9114	22-42	6	30	90cm cap. (style 50)	C	£158
P215LR-9140	14-24	4	16		D	£169
P215LR-9120					E	£256
P215BR-9110						£281
P215BR-9111					8-14	2.5
P215BR-9210	14-24	4	16		Direct mount (47)	£293
P215TR-9110				90cm cap. (50)	G	£329

Notes:

A = Minimum speed adjustable

B = Single pressure input

C = For R410A applications

D = 230V heat pump input

E = 400V version

F = Dual pressure input

G = Triple pressure input

† See page 49 for 'Style' references

REPLACEMENT PARTS (for Fan Speed Control 230V Versions)

Controller Code	Range (bar)	Element Style †	Replacement Item	
			Pressure Transducer	Electronic Module
P215LR-9110	14-24	50	P35AC-9500	P38AA-9111
P215LR-9111	8-14	50	P35AC-9501	P38AA-9111
P215LR-9210	14-24	47	P35AC-9502	P38AA-9111
P215LR-9211	8-14	47	P35AC-9503	P38AA-9111
P215LR-9610	14-24	51	P35AC-9507	P38AA-9111
P215LR-9611	8-14	51	P35AC-9508	P38AA-9111
P215BR-9110	14-24	50	P35AC-9500	P38AA-9211
P215BR-9111	8-14	50	P35AC-9501	P38AA-9211
P215BR-9210	14-24	47	P35AC-9202	P38AA-9211
P215BR-9211	8-14	47	P35AC-9203	P38AA-9211

Notes:

P35 Mechanical Transducers – see page 33

P38 Electronic Boards – please refer to the Sales Support Team

Supply Voltage – 230V, 50/60Hz

Rating – 3 Amp

Size – 118 x 70 x 53mm

† See page 49 for 'Style' references

Building Management System

The Metasys® system family of Field Equipment Controllers comprise a group of versatile BACnet®, Master-Slave/Token-Passing (MS/TP) network compliant field controllers and communicating zone and network sensors.

These products require engineering by specialist engineers, and are only available to Johnson Controls' Solution Integrators. All enquiries should be passed to your Account Manager.

MS-ADS/RAP Series**Application and Data Servers (ADS/ADX)**

The ADS server is an optional component of the system manages the collection and presentation of large amounts of trend data, event messages, operator transactions, and system configuration data. The ADX is a larger scale system that runs on a server operating system to provide extended historical archiving and reporting capabilities.



Ordering Codes	Description	List Price
MS-ADS05U-0	Application & Data Server (5 users)	POA
MS-ADX10SQL-0	Application & Data Server (10 users) c/w SQL2008	POA
MS-ADX10U-0	Application & Data Server (10 users)	POA
MS-ADXS0-0	Application & Data Server (25 users)	POA
MS-ADXS0SQL-0	Application & Data Server (25 users) c/w SQL2008	POA
MS-ADSLE5U-0	ADS-Lite-E (supports upto 5 engines in NAE35, NAE45, NCE, and/or NIE29/39/49)	POA
MS-RAP-0	Ready Access Portal (for Nx stand-alone sites)	POA

MS-FEC/IOM/FAC/VMA/TUC Series**Field Equipment Controllers**

These controllers comprise a group of versatile BACnet®, master-slave/token-passing (MS/TP) network compliant field controllers designed to monitor, control and integrate a wide variety of heating, ventilating and air-conditioning (HVAC). This family also includes field equipment controllers (FAC & FEC), input/output module (IOM) and the variable air volume modular assembly (VMA) 16 controller.



Ordering Codes	Description	List Price
MS-FAC2611-0	17-point Advanced Application Field Equipment Controller, 6UI, 2BI, 2AO, 3BO & 4CO; 24Vac; SA Bus	£633
MS-FAC2612-1	18-point Advanced Application Field Equipment Controller, 5UI, 4BI, 4CO & 5RO 24Vac; SA Bus, pluggable terminals	£671
MS-FAC2612-2	18-point Advanced Application Field Equipment Controller, 5UI, 4BI, 4CO & 5RO 120-240Vac; SA Bus, pluggable term.	£772
MS-FEC1611-0	10-point BACnet Controller, 2UI, 1DI, 3DO, 4CO	£859
MS-FEC1621-0	10-point BACnet Controller, as above but with display	£1,185
MS-FEC2611-0	17-point BACnet Controller, 6UI, 2DI, 2AO, 3DO, 4CO	£1,182
MS-FEC2621-0	17-point BACnet Controller, as above but with display	£1,629

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