

Modicon M171/M172 logic controllers for HVAC solutions

M172 Performance logic controllers



TM172PB07R



TM172PDG18R



TM172PB028RI



TM172PDG028RI



TM172PB042RI



TM172PDG042SI

M172 Performance logic controllers: Power supply: 24 V ~

35 mm/1.38 in rail mounting, and panel mounting with accessory

No. of I/O	Number and type of channels	Outputs	Embedded communication port	Display	Reference	Weight kg/lb
7	2 digital inputs: 2 high speed counter (2 kHz), dry contact 2 analog inputs (configurable in pairs): 2 NTC, or PT1000, or PTC, or 0-20 mA, or 4-20 mA, or 0-5 V, or 0-10 V, or hOhm, or daOhm, or digital input	3 digital outputs: 1 SPDT relay 3 A 2 SPST 3 A with the same common	1 Ethernet 1 CAN expansion bus 2 RS485 1 USB (type A) 1 USB Mini-B 1 Communication module port 1 μSD Card slot	Remote display (optional) Built-in display 128x64 LCD with backlight	TM172PB07R (1) TM172PDG07R (1)	0.175/0.386 0.200/0.441
18	2 digital inputs: 2 high speed counters, dry contact 8 analog inputs (configurable in pairs): 8 NTC, or PT1000, or PTC, or 0-20 mA, or 4-20 mA, or 0-5 V, or 0-10 V, or hOhm, or daOhm, or digital input	6 digital outputs: 1 SPDT relay 3 A 2 SPST 3 A with the same common 1 SPST 3 A 2 SPST 3 A with independent common - Optional 2 SSR 0.5 A with independent common for TM172PDG18S only 2 Analog outputs: 2 x 0-10 V, or 4-20 mA, or PWM (2 kHz, 24 V ~)	1 Ethernet 1 CAN expansion bus 2 RS485 1 USB (type A) 1 USB Mini-B 1 Communication module port 1 μSD Card slot	Remote display (optional) Built-in display 128x64 LCD with backlight	TM172PB018R (1) TM172PDG018R (1) TM172PDG18S (1)	0.200/0.441 0.225/0.496 0.225/0.496
28	8 digital inputs: 6 24 V ~ or ~ 2 high speed counters, dry contact 8 analog inputs, (configurable in pairs): 8 NTC, or PT1000, or PTC, or 0-20 mA, or 4-20 mA, or 0-5 V, or 0-10 V, or digital input	8 digital outputs: 1 SPDT Relay 1 A or 3 A for TM172P●G28● 3 SPST 3 A with the same common 2 SPST 3 A with the same common 2 SPST 3 A with independent common - Optional 2 SSR 0.5 A with independent common for TM172PDG28SI only 4 analog outputs: 2 x 0-10 V, or 4-20 mA, or PWM (2 kHz, 24 V ~) 2 x 0-10 V	1 Ethernet 1 CAN expansion bus 2 RS485 1 USB (type A) 1 USB Mini-B 1 Communication module port 1 μSD Card slot	Remote display (optional) Built-in display 128x64 LCD with backlight Remote display (optional) Built-in display 128x64 LCD with backlight	TM172PB028R (1) TM172PDG028R (1) TM172PB028RI (1) TM172PDG028RI (1) TM172PDG28SI (1)	0.300/0.661 0.300/0.661 0.390/0.859 0.390/0.859 0.390/0.859
42	12 digital inputs: 10 24 V ~ 2 high speed counter, dry contact 12 analog inputs, (configurable in pairs): 12 NTC, or PT1000, or PTC, or 0-20 mA, or 4-20 mA, or 0-5 V, or 0-10 V, or digital input	12 digital outputs: 2 SPDT relay 1 A or 3 A for TM172P●G42● 3 SPST 3 A with the same common 3 SPST 3 A with the same common 2 SPST 3 A with the same common 2 SPST 3 A with independent common - Optional 2 SSR 0.5 A with independent common for TM172PDG42S and TM172PDG42SI only 6 analog outputs: 2 x 0-10 V, or 4-20 mA, or PWM (2 kHz, 24 V ~) 4 x 0-10 V	1 Ethernet 1 CAN expansion bus 2 RS485 1 USB (type A) 1 USB Mini-B 1 Communication module port 1 μSD Card slot	Remote display (optional) Built-in display 128x64 LCD with backlight Remote display (optional) Built-in display 128x64 LCD with backlight	TM172PB042R (1) TM172PDG042R (1) TM172PDG42S (1) TM172PB042RI (1) TM172PDG042RI (1) TM172PDG42SI (1)	0.385/0.849 0.385/0.849 0.385/0.849 0.480/1.058 0.480/1.058 0.480/1.058

Accessories to be ordered separately

I/O screw terminal blocks, Fixing accessory

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(1) Products equipped with an isolated power supply, and two isolated RS485 ports.