

Modicon M171/M172 logic controllers for HVAC solutions

M172 Optimized logic controllers



TM172QBM18R



TM172ODM18R



TM172OBM28R



TM172QDM28R



TM172OBM42R



TM172ODM42R



TM172ASCTB28



TM172AP12PM

M172 Optimized logic controllers: Power supply: 24 V $\simeq$

35 mm/1.38 in □ rail mounting, and Panel mounting with accessory

No. of I/O	Number and type of channels	Embedded communication port	Display	Reference	Weight kg/lb
	Inputs	Outputs			
18	2 digital inputs: ■ 2 high speed counter (2 kHz), 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 2 analog outputs: ■ 2 x 0-10 V, or 4-20 mA, or PWM (2 kHz, 24 V ---)	■ 1 CAN expansion bus ■ 2 RS485 ■ 1 USB Mini-B ■ 1 Communication module port	Remote display (optional) Built-in display 128x64 LCD with backlight	TM172OBM18R (1) TM172ODM18R (1) 0.170/ 0.375 0.195/ 0.430
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 3 A ■ 3 SPST 3 A with the same common ■ 2 SPST 3 A with the same common ■ 2 SPST 3 A with independent common 4 analog outputs ■ 2 x 0-10 V, or 4-20 mA, or PWM (2 kHz, 24 V ---) ■ 2 x 0-10 V	■ 1 CAN expansion bus ■ 2 RS485 ■ 1 USB Mini-B ■ 1 Communication module port	Remote display (optional) Built-in display 128x64 LCD with backlight	TM172OBM28R (1) TM172ODM28R (1) 0.390/ 0.859 0.390/ 0.859
42	12 digital inputs: ■ 10 24 V ~ or --- ■ 2 high speed counters, 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 3 A ■ 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 6 analog outputs: ■ 2 x 0-10 V, or 4-20 mA, or PWM (2 kHz, 24 V ---) ■ 4 x 0-10 V	■ 1 CAN expansion bus ■ 2 RS485 ■ 1 USB Mini-B ■ 1 Communication module port	Remote display (optional) Built-in display 128x64 LCD with backlight	TM172OBM42R (1) TM172ODM42R (1) 0.480/ 1.058 0.480/ 1.058

Accessories to be ordered separately

Designation	Use for	Reference	Weight kg/lb
I/O screw terminal blocks	TM172●●●07R logic controllers	TM172ASCTB07	0.025/ 0.055
	TM172●●●18● logic controllers	TM172ASCTB18	0.040/ 0.088
	TM172P●●●28●, TM172P●●●28●I logic controllers	TM172ASCTB28	0.100/ 0.220
	TM172P●●●42●, TM172P●●●42●I logic controllers	TM172ASCTB42	0.150/ 0.331
Fixing accessory: 12 clip-on locks for panel mounting	For mounting M172 logic controllers and M172 expansion modules on panel	TM172AP12PM	0.050/ 0.110

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