

# MA Series Temperature Controller

## Ordering Information



25 Whitefriars Drive  
 Toronto Ontario Canada M3A 2L2  
 Tel: 416 444-0817  
 Fax: 416 444-2361  
 Toll Free: 1 888-4SHINKO  
 Effective: August 2003

Barber Colman  
 Model MA □ □ - □ □ □ □ □ □ - □ □ □ □ - □ □ □ □  
 Code No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Shinko North America Ltd.  
 Model M C □ - 1 3 □ - □ / □ □  
 Code No. 1 2 3 4 5 6 7 8 9

Controller Size  
 1 to 3 MAQ - 1/4 DIN (96 mm square)  
 MAE - 1/8 DIN (48 x 96 mm)

Controller Size  
 1 to 5 MCD13  
 MCR13

US List Price  
 \$416.00  
 \$368.00

Output 1  
 1 - Relay Contact  
 2 - Non-Contact Voltage (for SSR)  
 3 - Current (4 to 20mA dc)  
 C - Current ( 2 to 12 mA dc)  
 T - Triac Output (for MAQ)  
 T - Triac Output (for MAE)

Output 1  
 R  
 S  
 A  
 N/A  
 T  
 T

N/C  
 N/C  
 N/C  
 N/A  
 \$17.00  
 \$34.00

Output 2  
 0 - Non  
 1 - Relay Contact  
 2 - Non-Contact Voltage (for SSR)  
 3 - Current (4 to 20mA dc) (N/A for MAE)  
 C - current (2 to 12mA dc) (N/A for MAE)  
 4 - alarm 2 (shipped as Process Alarm)  
 T - Triac Output

Output 2  
 -----  
 DR  
 DS  
 DA  
 N/A  
 AL8  
 DT

\$34.00  
 \$34.00  
 \$34.00  
 N/A  
 \$34.00  
 \$34.00

Input  
 6 & 7 Thermocouple  
 19 - Type K (0 - 2400°F)  
 02 - Type K (0 - 1200°C)  
 03 - Type J (0 - 1600°F)  
 04 - Type J (0 - 800°C)  
 07 - Type R (0 - 3200°F)

Input  
 8 E  
 19 - Type K (0 - 2400°F)  
 02 - Type K (0 - 1200°C)  
 03 - Type J (0 - 1600°F)  
 04 - Type J (0 - 800°C)  
 07 - Type R (0 - 3200°F)

N/C  
 N/C  
 N/C  
 N/C  
 N/C  
 N/C

MA Series Temperature Controller (MAQ, MAE)

Input

6 & 7

- 08 - Type R (0 - 1600°C)
  - 09 - Type S (0 - 3200°F)
  - 10 - Type S (0 - 1600°C)
  - 11 - Type B (0 - 3200°F)
  - 12 - Type B (0 - 1800°C)
  - 13 - TypeT (-199.9 - 750.0°F)
  - 14 - Type T (-199.9 to 400.0°C)
  - 15 - PL II (0 - 2400°F)
  - 16 - PL II (0 - 1300°C)
  - 17 - Type C (0 - 4200°F)
  - 18 - Type C (0 - 2300°C)
- RTD
- 32 - PLT 100DIN (-199.9 - 400°C)
  - 33 - PLT 100DIN (-199.9 - 999.0°F)
- Current (4 to 20mA dc)
- 40 - (-199.9 to 999.9)
  - 41 - (-1999 to 9999)
- Voltage (0 - 5Vdc)
- 50 - (-199.9 to 999.9)
  - 51 - (-1999 to 9999)
- Voltage (1 - 5Vdc)
- 60 - (-199.9 to 999.9)
  - 61 - (-1999 to 9999)
- Voltage (0 -10Vdc)
- 70 - (-199.9 to 999.9)
  - 71 - (-1999 to 9999)

Digital Communication

8 0 - None

- 1 - RS-485 (MAQ)
- 2 - RS-485 (MAE, 120Vac only)
- 3 - RS-485 (MAE, 240VAC only)

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Input

8

- Type R (0 - 1600°C)
  - Type S (0 - 3200°F)
  - Type S (0 - 1600°C)
  - Type B (0 - 3200°F)
  - Type B (0 - 1800°C)
  - Type T (-199.9 - 750.0°F)
  - Type T (-199.9 to 400.0°C)
  - PL II (0 - 2400°F)
  - PL II (0 - 1300°C)
  - Type C (0 - 4200°F)
  - Type C (0 - 2300°C)
- R
- PLT 100DIN (-199.9 - 400°C)
  - PLT 100DIN (-199.9 - 999.0°F)
- A
- (-199.9 to 999.9)
  - (-1999 to 9999)
- V
- (-199.9 to 999.9)
  - (-1999 to 9999)
- V
- (-199.9 to 999.9)
  - (-1999 to 9999)
- V
- (-199.9 to 999.9)
  - (-1999 to 9999)

9 -----

- C5
- C5
- C5

US List Price

- \$163.00
- \$163.00
- \$163.00

**MA Series Temperature Controller (MAQ, MAE)**

**Special Options MAQ only**

9 0 - None

1 - Auto/Manual

2 - Auto/Manual & Remote Setpoint (4-20mA)

3

4

5

7

**Shinko North America Ltd.  
Special Options MAQ only**

9 -----

M

M, E

M, PVT

M, E, PVT

M, E

M, E, PVT

**US List Price**

\$ 26.00

\$150.00

\$150.00

\$275.00

\$150.00

\$275.00

**INSTA-SET Memory**

10 0 - None

1 -

9 -----

SM

\$ 34.00

**Housings**

11 0

1

9 Standard

N/A

N/C

**Heater Burnout Function**

Requires option 1, 2 ...

12 0

1

2

3

4

5

6

9 -----

W(5A)

W(10A)

W(20A)

W(30A)

W(40A)

N/A

\$ 83.00

\$ 83.00

\$ 83.00

\$ 90.00

\$ 90.00

**Alarm 1**

13 0 (for MAQ)

1

2

3

4

5

6

7

8

6 0 (for MCD)

2

3

4

6

8

9 AL2H

AL3H

AL4H

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00



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Barber Colman

Model MA M  - 0   0 0 - 0 0  -  -    
 Code No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Shinko North America Ltd.  
 Model M C S - 1 3  -  /    
 Code No. 1 2 3 4 5 6 7 8 9

Base Model

1 to 3 MAM - 1/16 DIN (48mm square)

1 to 5 MCS-13

US Price List  
 \$267.00

Output 1

4 1 - Relay Contact  
 2 - Non-Contact Voltage (for SSR)

7 R  
 S

N/C  
 N/C

Output 2

5 0 - Non

9 N/A

N/C

Input

6 & 7 Thermocouple

01 - Type K (0 - 999°F)  
 02 - Type K (0 - 999°C)  
 03 - Type J (0 - 999°F)  
 04 - Type J (0 - 800°C)  
 RTD  
 32 - PLT 100 DIN (-199 to 400°C)  
 33 - PLT 100 DIN (-199 to 999°F)

8

E  
 Type K (0 - 999°F)  
 Type K (0 - 999°C)  
 Type J (0 - 999°F)  
 Type J (0 - 800°C)

PLT 100 DIN (-199 - 400°C)  
 33 - PLT 100 DIN (-199 - 999°F)

N/C

N/C  
 N/C  
 N/C  
 N/C

Digital Communication

8 0 - None

9 N/A

N/C

Special Options

9 0 - None

9 N/A

N/C

INSTA-SET Memory

10 0 - None

9 N/A

N/C

Barber Colman (MAM)

Shinko North America Ltd.

Housings

11 0 Standard

9 Standard

US Price List  
N/C

Heater Burnout Function

12 0

9

- 1 -----
- 2 W(5A)
- 3 W(10A)
- W(20A)

\$ 83.00  
\$ 83.00  
\$ 83.00

Alarm1

13 0

6

- 1 0
- 2 2
- 3 3
- 4 4
- 5 6
- 6 8
- 7 AL2H
- 8 AL3H
- AL4H

\$ 34.00  
\$ 34.00  
\$ 34.00  
\$ 34.00  
\$ 34.00  
\$ 34.00  
\$ 34.00  
\$ 34.00  
\$ 34.00

Special

9

N/A



Barber Colman (MAQ6-6)

Shinko North America Ltd.

Digital Communication

8 0 - None

1 - RS-485

9 -----  
C5

US Price List

\$163.00

Special Options

9 1 - Auto/Manual

3 - Auto Manual & Process Variable Output

5 - Auto/Manual & Remote Setpoint (1 - 5Vdc)

9 Standard  
PVT

MVT

\$ 0.00

\$124.00

\$126.00

INSTA-SET Memory

10 0 - None

1 -

9 -----  
SM

\$ 34.00

Reserved

11 & 12

9 N/A

Alarm 1

13 0

1

2

3

4

5

6

7

8

6 0

2

3

4

6

8

9

AL2H

AL3H

AL4H

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

\$ 34.00

Special  
14, 15

9 N/A



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