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Find the *Barber-Colman MA-P* at our website: *Click HERE*

MAP Programmer/Controllers

MAP Series Quarter DIN Programmer/Controller

- ***Ten Patterns, Ten Steps per Pattern***
- ***Patterns can be linked (100 Steps)***
- ***Battery Backed Memory***
- ***Pattern End Output***
- ***Touch-Tune™ Automatic Tuning***
- ***PID, WAIT, & Alarm Block Functions***
- ***Time Block Functions***
- ***High/Low Deviation Alarms***
- ***Front Panel Thermocouple Selection***
- ***Adjustable Setting Value Range***



Optional Features

- Standby or Hold after Power Failure
- Remote Stop, Hold, Advance, and Run
- 7 Time Signal Outputs (Event Outputs)
- Process Variable Output
- Setpoint Output
- RS-485 Digital Communications
- Guaranteed Ramp/Soak using External Input and Event Module (A-12366)

Introduction

The MA-P is a microprocessor based time variable programmer with a built in single loop controller.

As many as 10 separate patterns of 10 steps each can be programmed, or patterns can be linked up to a maximum of 100 steps. Step duration can be from 0 to 99 hours 59 minutes.

Programmer block functions allow for storage of tuning constants, wait temperature settings, and alarms. Blocks can be assigned to as many program steps as necessary.

Optional time signal blocks (16 different Off/On settings) can be assigned to any of seven different open-collector time signal outputs.

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Ordering Information

MODEL	M	A	P	☐	-	0	☐	☐	☐	☐	-	☐	☐	0	-	☐	-	0	0
Field No.	1	2	3	4		5	6	7	8	9		10	11	12		13		14	15

Fields 1 through 3.
1/4 DIN MA SERIES PROGRAMMER/CONTROLLER
Key Standard Features:
10 Patterns of 10 Steps each.
Patterns can be Linked to reach maximum of 100 Steps.
TouchTune™ Automatic Tuning.
High/Low Deviation Alarms.
Pattern End Output.
10 PID, Wait, and Alarm Blocks.
Start Program by Run selection.

Field 4. OUTPUT 1
1 - Relay Contact (reverse acting)
2 - Non-Contact Voltage (for SSR) (reverse acting)
3 - Current (4 to 20 mAdc) (reverse acting)
4 - SSR Output (reverse acting)
6 - Relay Contact (direct acting)
7 - Non-Contact Voltage (for SSR) (direct acting)
8 - Current (4 to 20 mAdc) (direct acting)
9 - SSR Output (direct acting)

Filed 5. RESERVED

Filed 6 & 7. INPUT
Thermocouple:
19 - Type K (0 to 2400 ˚F)
02 - Type K, (0 to 1200 ˚C)
03 - Type J (0 to 1600 ˚F)
04 - Type J (0 to 800 ˚C)
07 - Type R (0 to 3200 ˚F)
08 - Type R (0 to 1600 ˚C)
09 - Type S (0 to 3200 ˚F)
10 - Type S (0 to 1600 ˚C)
11 - Type B (0 to 3200 ˚F)
12 - Type B (0 to 1800 ˚C)
13 - Type T (-199.9 to 750.0°F)
14 - Type T (-199.9 to 400.0°C)
17 - Type C (0 to 4200 ˚F)
18 - Type C (0 to 2300 ˚C)
RTD
32 - PLT 100 DIN (.00385 Ω/Ω/˚C) (-100.0 to 400.0 ˚C)
33 - PLT 100 DIN (.00385 Ω/Ω/˚C) (-100.0 to 400.0 ˚F)
Current (4-20 mAdc)
42 - 0 to 100.0

Field 8. DIGITAL COMMUNICATIONS
0 - None
1 - RS-485, 1200 bps
2 - RS-485, 2400 bps
3 - RS-485, 4800 bps
4 - RS-485, 9600 bps

Field 9. OPTIONS
0 - None
1 - Process Variable Output (4 to 20 mAdc)
2 - Setpoint Output (4 to 20 mAdc)

Field 10. SPECIAL OPTIONS
0 - None
1 - External Input
Stop, Hold, Advance, and Run
2 - Time Signal Outputs
7 Open Collector Outputs; 15 Time Blocks
(User supplied 50 mA 24 Vdc max.)
3 - Special Options 1 and 2

Field 11. POWER FAILURE MODE/STARTING PROGRAM
0 - Continue Program after restoring Power (standard)
1 - Standby Status after restoring Power
2 - Hold Status after restoring Power
3 - Process Value Start
4 - Automatic Start on Powerup

Field 12. RESERVED

Field 13. ALARM OPTIONS
0 - High/Low Deviation Alarms (standard)
1 - Dual Process Alarms

Field 14 & 15. RESERVED

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