Four push-button keys are available:



PASSWORD OVERVIEW:

The factory set password is 33 and can be changed for security reasons.

- To access the 'Configuration Data' listed in Section I, a password is always needed.
- To access the 'Parameters Data' listed in Section II, a password may or may not be needed depending on the password used (see Password Information).
- To access the 'Operator Information' listed in Section III, a password is not required.

PASSWORD INFORMATION:

If Password is set at 0 to 4999: The 'Parameters Data' listed in section II is available to the operator at all times. This password is only needed to access

Section I - CONFIGURATION DATA:

Configuration Data is high level data that defines how the controller reacts to your process. This data entry requires a password. Push MENU key once to exit Configuration.

Software Configuration Code:

This five-digit code defines type of input, control mode & output, direct/reverse action and alarm types. This code may be changed to meet your application. The factory set 'Software Configuration Code' is 3002-3 for J thermocouple input, PID control on output #1, reverse acting mode, output #2 as absolute high alarm, & output #3 as absolute low alarm. To change code; push MENU key until 'ConF' is displayed, push INCREASE or DECREASE keys to code needed, then push ENTER key to save this new code. See M400 User Manual pages 18 & 19 for available code listing.

To Change Engineering Units:

Press ENTER key until 'Unit' is displayed, push INCREASE or DECREASE keys to desired selection, press ENTER key to save this new engineering unit. See M400 User Manual page 37 for engineering unit listing. Examples of engineering units are: °F and °C.

Additional configuration functions available: # of display decimals (linear input only) + options of : Communication baud rate, retransmission range, DI functions, timer / startup functions, & current transformer input. See M400 User's Manual pages 35 to 37 for a detailed explanation of these functions.

'Configuration Data' listed in Section I.

The 'Parameters Data' listed in

Section II is NOT available to the

operator at all times. This password is needed for access to

both 'Parameters Data' Section II and 'Configuration Data'

To Enter Known Password:

Push MENU key until 'PASS' is

on lower display, then press INCREASE or DECREASE key

to known password (the factory

set password is 33), then push

ENTER key. You are now in

(Note: there is no need to change

the factory set password of 33

After entering known password, (if

ConF is not on lower display already)

push MENU key until 'ConF' is on

lower display, push ENTER key until

'Code' is displayed in lower display,

push INCREASE or DECREASE key

to new password, press ENTER key

to save new password. (IMPOR-

TANT: record this new password in

a safe place for future reference !!!)

Press MENU key once to exit

Configuration Data Section I.

Configuration Data Section I.

To Change Password:

except for security reasons).

9999.

Section I.

ATHENK If Password is set at 5000 to

QUICK **START** GUIDE

M400 line

QSUGM400RKH -12/03/02

Platinum



IMPORTANT

Before functioning proper-READ THIS FIRST: Iy in your application, you will need to set (in order) the controller's:

- Password
- · Configuration data (especially the software configuration code)
- · Parameters data

This 'Quick Start Guide' will help take you through this process in a minimal amount of time. References to the larger 'M400 User Manual' are used, so have

that manual available as you read through this guide.

Additional support is available via:

- Athenacontrols.com on the web
- Technical support on the phone at 610-828-2490 8am to 5pm EST weekdavs
- Your local Athena Controls authorized representative or distributor

Section II - PARAMETERS DATA:

Parameters Data is detailed data that defines how the controller reacts to your process. This data entry may require a password (see password overview). Depending on the software configuration code, some displays may vary. Push MENU key 3 times to exit Parameters.

To Display and Change Alarm Setpoint:

Push MENU key until A2SP is on lower display (alarm 2 setpoint), press INCREASE or DECREASE key to change upper display value (factory default value is 32), press ENTER key to save. Repeat for A3SP (alarm 3 setpoint).

To Start Autotune Software:

Push MENU key until 'tune' displays, press INCREASE or DECREASE key to select 'start' or 'stop' (factory default value is 'stop'), press ENTER key. Green 'AT' indicator will light until software calculation is completed.

To Enter Parameter Group 1:

Push MENU key until A2SP displays. Then press ENTER key until 'Pb' displays. This group will allow access to PID tuning, output/alarm limit & heat/cool parameters.

See M400 User Manual pages 25 & 26 for details.

To Enter Parameter Group 2:

Push MENU key until 'tune' displays. Then press ENTER key, 'AdPt' displays. This parameter group will allow access to setpoint, alarm, adaptive tuning, and option parameters.

See M400 User Manual page 26-28 for details.

Section III - OPERATOR INFORMATION:

This information is always available to the operator and does not require a password.

Normal Display - Process Variable (PV):

The normal display shows PV (input value) in the upper display, and SP on the lower display. On the left part of the display; a red 1, 2, or 3 indicates that output is active. A steady green 'MAN" indicates manual mode, and a flashing 'MAN" indicates autotune software is active. See M400 user Manual page 20 for other indicators.

To Change from Auto to Manual mode:

Push the MENU key once, 'AMan' displays in lower display, 'Auto' displays in upper display. Push INCREASE key once, 'Man' displays in upper display, press ENTER key to save entry. Use same procedure to go back to Auto mode, but use DECREASE key to select 'Auto'.

To Change Setpoint (SP) Value:

Push either the DECREASE or INCREASE key to change the SP value.

To Display PV Engineering Units:

Push ENTER key once and the type of unit will display briefly in the lower display (examples: °C or °F). This value can only be changed via password access.

To Display Output Value while in Auto mode: Push the ENTER key twice, 'Out' briefly displays on lower display with output value in the upper display. This value can only be changed when in the manual mode.

