

INFO-PAC PROGRAMMING OF THE MICON CONFIGURATION

MICON INFO-PAC V1.4

DOCUMENT #206AY01.PRG R02

DATE: April 4, 1994

TABLE OF CONTENTS

INTRODUCTION.....	3
GENERAL OPERATION.....	3
KEYBOARD FUNCTION	3
POWER ON..	3
AUTOMATIC SHUTOFF	3
PUMP FEATURE SETUP MODES....	4
CONFIG	4
TEST.....	5
IN COUNT	5
CURRENCY..	5
VOL DISP.....	6
SUPPRESS.....	6
TIMES 2.....	7
GAL CONV..	7
NO FLOW.....	7
VOL PPU	7
VOL PW	8
PENNY PW	8
TRANSMIT.....	8
TX DISP	9

INTRODUCTION

The MICON INFO-PAC is used to program certain features of MICON 100 (software version V7.00 or higher) and MICON 200 pump computers. These features are setup in the INFO-PAC memory and then can be transmitted to the MICON when all the desired features have been set. Transmission from the INFO-PAC to the MICON requires the breaking of a Weights & Measures seal on the MICON cover.

GENERAL OPERATION

KEYBOARD FUNCTION

▲: this key is used to scroll upwards through the menu items.

▼: this key is used to scroll downwards through the menu items.

◀: this key is used to turn the INFO-PAC on, and to scroll forward through the possible values of a menu option.

▶: this key is used to scroll backward through the possible values of a menu option, except when a cursor is displayed on the screen. In this case the key is used to move the cursor to the right with "wrap around" when the cursor is on the right most character.

POWER ON

To turn on the INFO-PAC press the key marked ▲. The INFO-PAC display will show:

```
MICON_InfOPAC1.4
```

This display shows the software version and will change in about a second to:

```
CONFIG,,,default or CONFIG,,,custom
```

AUTOMATIC SHUTOFF

The INFO-PAC will automatically shutoff after ½ minute without keyboard activity unless the INFO-PAC is in transmit mode where the shutoff time is extended to 10 minutes.

PUMP FEATURE SETUP MODES FOR THE MICON

The following features are settable:

CONFIG	- Set to default configuration
TEST	- Set Test Mode On
IN COUNT	- Number of Quadrature Transition per Unit
CURRENCY	- Monetary Unit for Currency display
VOL DISP	- Number of decimal place in the Units display
SUPPRESS	- Type of Volume Suppression
TIMES 2	- Set Times 2 Option On
GAL CONV	- Set Metric Meter to Gallon Display On
NO FLOW	- Set No Flow Timer On
VOL PPU	- Number of Pulses per Unit Output
VOL PW	- Pulse Width of Unit Pulse
PENNY PW	- Pulse Width of Volume Pulse
TRANSMIT	- Transmit Pump Configuration Info to Micon
TX DISP	- Transmit Command to Change Micon Display Type

NOTE: The settable MICON options do not take effect until the TRANSMIT option is executed successfully.

The menu options follow; the order in which they appear is the same order they would appear on the INFO-PAC display if the ▲ was used to scroll through the menu options.

CONFIG

This option is used to set all the "micon" options to their default values. The possible settings for this option are as follows:

```
CONFIG , , , default
```

This display indicates that the "micon" options are at their default values.

```
CONFIG , , , custom
```

This display indicates that the "micon" options have been modified from their default values. Pressing either the ◀ or ▶ keys will return the options to their default settings.

The default settings are as follows:

```
TEST , , , off
IN COUNT , , , 10,00
CURRENCY , dollars
VOL DISP , , , 1.000
SUPPRESS , , , 0.030
```

```
TIMES 2 , , , off
GAL CONV , , , off
NO FLOW , , , off
VOL PPU , , , 10
VOL PW , , , 4.0ms
```

```
PENNY PW , , , 4.0ms
```


CURRENCY, , , , 2, dp

This setting uses 2 decimal position in the Money field, 2 decimal position in the Price field and d in the totalizers display.

CURRENCY, , , , no, dp

This setting uses no decimal position in the Money field, no decimal position in the Price field and d in the totalizers display.

NOTE : Other currency values will be added to the INFO-PAC program as necessity warrants.

VOL DISP

The value of this option determines the number of decimal positions to be displayed in the Unit field of the MICON. The MICON can not be set to display a more precise reading than the incoming pulses will allow and can not be set to display less precisely than to the nearest unit. The possible setting for this option are as follows.

VOL DISP, , , , 1, .0, 0, 0

VOL DISP, , , , 1, .0, 0

VOL DISP, , , , 1, .0

VOL DISP, , , , 1

SUPPRESS

This option determines whether or not unit suppression is used and the type on unit suppression used. This option currently has 4 possible values.

SUPPRESS, , , , 0, .030

For the first 0.030 units of the sale the display remains showing 0's. At 0.031 the sale amounts are displayed.

SUPPRESS, , , , 0, .009

For the first 0.009 units of the sale the display remains showing 0's. At 0.010 the sale amounts are displayed.

SUPPRESS, , , , 0, .000

The sale amounts are displayed as soon as the first displayable unit is dispensed.

SUPPRESS, , , , , sgc

This is a special suppression setting made for San Diego Gas and Electric which keeps the final unit display digit at 0 regardless of its actual value throughout the sale.

TIMES 2

This option defines whether or not a times 2 base is used with the MICON. This effectively changes the IN COUNT defined above to be equal to half the value shown by the INFO-PAC. This option is an on/off toggle.

TIMES 2 off The TIMES 2 option is disabled.

TIMES 2 on The TIMES 2 option is enabled.

GAL CONV

This option is an on/off toggle. When this option is turned on, the MICON will convert the incoming pulses from a U.S. gallon meter into litres. The conversion factor used is $3^{51471}/65535$ litres per U.S. gallon.

GAL CONV off

The litre to gallon conversion is turned off.

GAL CONV on

The litre to gallon conversion is turned on.

NOTE : Other conversions are available by modifying the INFO-PAC software.

NO FLOW

This option is an on/off toggle. When this option is turned on, the MICON will shut-off the pump after 1.5 minutes.

NO FLOW off

The no flow option is disabled.

NO FLOW on

The no flow option is enabled.

VOL PPU

This option defines the number of output pulses per unit (PPU) that are transmitted on the LITRE PULSE line of the MICON. This value can not be less than the IN COUNT set for this MICON. A PPU lower than 1 is not permitted by the INFO-PAC. The possible PPU values are as follows:

VOL PPU 1000

VOL PPU 100

VOL PPU 10

VOL PPU 1

VOL PW

This option sets the width of the Litre Pulse signal. This width is defined as the "on time" length of the pulse. The possible pulse widths are:

VOL PW , , , , , 4.0ms

VOL PW , , , , , 17.0ms

VOL PW , , , , , 26.0ms

VOL PW , , , , , 150.0ms

VOL PW , , , , , 0.5ms

VOL PW , , , , , 1.0ms

VOL PW , , , , , 2.0ms

PENNY PW

This option sets the width of the Penny Pulse signal. This width is defined as the "on timer" length of the pulse. The possible pulse widths are:

PENNY PW , , , 4.0ms

PENNY PW , , , 17.0ms

PENNY PW , , , 26.0ms

PENNY PW , , , 0.5ms

PENNY PW , , , 1.0ms

PENNY PW , , , 2.0ms

TRANSMIT

This menu option is used to transmit the data set in the previous options to the MICON.

TRANSMIT , , , , , off

This display indicate that the INFO-PAC transmitter is turned off.

TRANSMIT , , , , , on

This display indicated that the INFO-PAC transmitter is turned on.

To Transmit "micon" setup information to the MICON:

- 1) Switch off the head power to the MICON. The MICON display should be flashing.
- 2) Open the MICON explosion proof housing. This will require breaking the Weights &

Measures seal. If a switch is located on the back of the MICON mainboard flip it to activate INFO-PAC communications; If the switch is not found, place a jumper connecting pins 6 and 9 of the P3 (ATC/pulser) connector, which will activate the INFO-PAC communications. While this jumper is in place the MICON display will show:

MICON
200
Prog For the MICON 200 and

MICON
100
Prog For the MICON 100

- 3) Set the INFO-PAC to transmit "micon" setup information as shown above. If the Micon display has blanked, lift the pump handle to reawaken the MICON.
- 4) Aim the INFO-PAC transmitter (located behind the red filter on the right hand edge of the unit) at the optical sensor located at the right of the price display. The red indicator on the left of the price display will flash as the MICON receives the INFO-PAC data.
- 5) When the MICON has received the setup information correctly, the MICON price display will show **rcud** for 2 seconds and run through its display test sequence.
- 6) Remove the jumper, close the explosion proof housing and switch the head power back on and run the MICON using the new settings.

NOTE: The MICON will not run if the jumper is left installed.

TX DISP

This menu option is for future use only. It currently has no effect on the MICON.