Measurement Technology Int.

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EQUALIZER MODEL EQ30
Retrofit Pump Computer
Operator's Manual
2nd Edition April 1998

ATTENTION: INSTALLATION CONTRACTOR

PLEASE GIVE THIS MANUAL TO STATION MANAGER
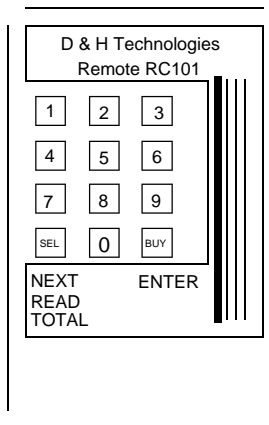
mtiopman.sxw

<u>ATTENTION</u>

PLEASE COMPLETE & RETURN YOUR

WARRANTY REGISTRATION CARD UPON

INSTALLATION OR WARRANTY WILL BE

<u>NULL & VOID.</u>

EQUALIZER MODEL EQ30 OPERATOR'S MANUAL

1.0 Day To Day Operation

Day to day operation of the EQ30 requires that the operator be capable of reading totalizers and setting new prices. All access to information and programming is accomplished using the infrared remote control shown below in figure 1.

Figure 1

1.1 Setting Prices

Be sure that both pump handles are off, then point the remote control in the direction of the receiver and type in the price set security code provided by the station manager. As each number is entered the display on the pump will show a "o" symbol on the display to indicate that a security code is being received. If you make a mistake in entering the security code press the "ENTER" key to cancel the code, and start entering over again. When the correct code has been entered the following display will appear:

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```
┌─────────────┐
│   Prc  1A   │        Indicates
│             │        Price tier #1
└─────────────┘        of Side "A"
```

```
┌─────────────┐        Indicates
│   000001    │        number of
└─────────────┘        changes
```

Flashing Digit

```
┌─────────────┐        current price
│  0.539      │        setting
└─────────────┘
```
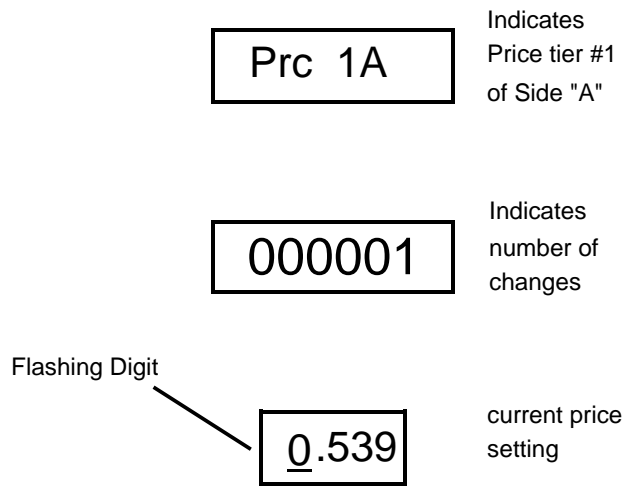
Figure 2 Price Set Display

Pressing the "NEXT" key causes the price category to advance to the next available category. There are two categories available per side.

      Prc 1A = Side A normal (credit) price
      Prc 2A = Side A cash (discount) price (if two tier option enabled)

If the EQ30 is a dual the above displays can also be selected for side B.
While the display for the desired price change is visible, key in the correct new price. Then hit "NEXT" to advance to the next price category or press "ENTER" to end the price set session. If you make an error in entering the new price, press the "0" key until the cursor wraps around back to the first digit, then re-enter the corrected price.

Every time a new price is entered, after the "ENTER" key is pressed, the price change counter for changed price categories is increased by one. Thus management can keep track of all price changes. Note that you can change the prices as many times as you like while you are in the price set session without increasing the price change count. Only pressing the "ENTER" key AND changing one or more prices causes the counter to increase by one.

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2.0 Reading Totalizers Without Security

Locate the optical receiver on the EQ30. The receiver is located on the display with the green power "ON" indicator light. The "ON" indicator light is located on side A of the pump if it is a dual unit.

Be sure that both pump handles are off, then point the remote control in the direction of the receiver and press the "READ TOTAL" button on the control. If either pump handle is "ON" when the "READ TOTAL" key is pressed, the message "ERROR 3" will be displayed, indicating that this feature is not available while a pump handle is "ON". If the handles are off the following display will appear
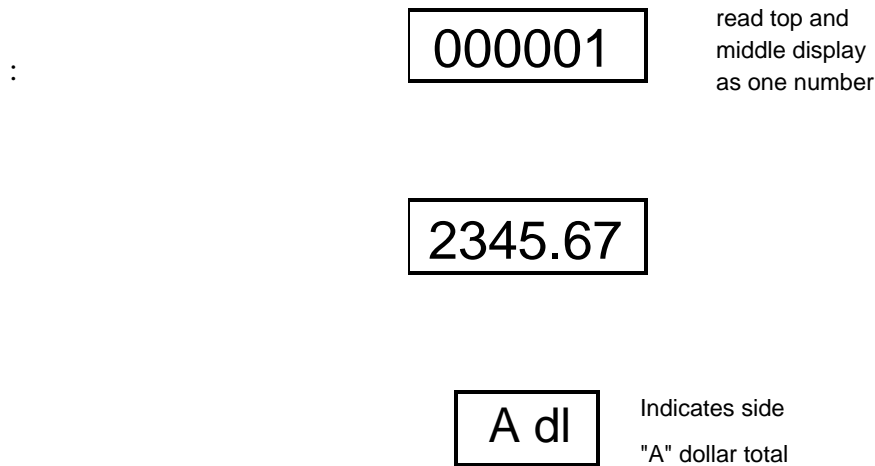
:
$$\boxed{000001}$$

read top and
middle display
as one number

$$\boxed{2345.67}$$

$$\boxed{A\ dl}$$

Indicates side
"A" dollar total

Figure 3 Totalizer Display

The above total read as "$12,345.67"

The bottom display describes the total type as follows:

"A dl" = side A dollars
"A uU" = side A Uncompensated Volume
"A CU" = side A Compensated Volume

If the EQ30 is a dual, the above displays can also be shown for side B.
To access different totals simply press the "READ TOTAL" button repeatedly until the desired total is displayed.

To end the totalizer read session at any time, press the "ENTER" key.

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3.0 Error Codes and Displays

During data entry or program mode selection the following error codes may be displayed:

"Error 1" Indicates selected program step invalid or disabled
"Error 2" Indicates selected program step number requires Audit security code
"Error 3" Indicates requested feature not available with pump handle "ON"
"Error 4" Can not run simulation with sale outstanding
"Error 5" Can not run autocalibration with calibration factor not initially set to "0000"
"Error 6" Can not calibrate, new calibration factor is greater than -/+ 12.75%

In addition to error codes, the unit may display fault conditions it detects while in normal operation.

Probe OPEn   An ATC temperature probe has failed open
Probe Short   An ATC temperature probe has failed short
PULSEr Error Pulser has failed
no FLo StoP   The pump has stopped due to a no flow timeout
Adc FAIL   The hardware on the unit has failed
Spill Stop   The pump has stopped due to a leak being detected
Spill FAULT   The leak detector cable has failed or is disconnected
FAULt nn   The unit has failed, "nn" is a reporting code

Factory Security Codes:

Inspect Totalizers   Security Code 02 (enable "read Total key"
Set Price   Security Code 123

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3.0 Error Codes and Displays (cont'd)

The following is an example of a problem and the procedure that should be followed:

1. Pump is running and suddenly stops, then flashes "Pulser Error" on the display.

2. Turn pump handle off and record last sale.

3. Turn pump on again.

4. If pump stops and flashes "Pulser Error" again, the pulser must be replaced.

If the problem is under warranty please contact your service contractor with the following information:

1. Pump number.

2. The D&H EQ30 serial number (e.g. C02-1124). **Very important!**

3. Problem with the pump. Error code if any (e.g. Pulser Error).

4. How often the problem occurs.

5. Site location