

**State of California**  
 Department of Food and Agriculture  
 Division of Measurement Standards

Certificate Number: 5510(a)-07  
 Page 1 of 13

**California Type Evaluation Program**  
**Certificate of Approval**  
**for Weighing and Measuring Devices**

**For:**  
 Retail Motor Fuel Dispenser  
 Electronic Computing  
 Model: Nxx Series\*  
 Generic Name: Encore 300, Encore 300S, Encore 350,  
                   Encore 350S, Encore 500, Encore 500S,  
                   Encore 550, Encore 550S  
 Capacity: \$999.99 Total Sale  
               999,999 Total Volume  
               \$9,999 Maximum Unit Price

**Submitted by:**  
 Gilbarco Inc.  
 7300 West Friendly Avenue  
 Greensboro, NC 27420-2087  
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**Standard Features and Options**

\* The specific model designations of devices covered by this Certificate are listed below and on Page 2.

Meter Model Numbers	T19976 GX	T19976 GX	M02950A001	Murray 989	P9XXX Series
<b>Used in Dispenser</b>	<b>Standard</b>	<b>Super hi</b>	<b>Standard</b>	<b>Alternate Fuels</b>	<b>Ultra Hi</b>
Name	"C +" Meter	"C +" Meter	Smart Meter	Murray	LC M5 Series
Minimum Flow Rate	1.5 gpm	6 gpm	0.5 gpm	1.5 gpm	12 gpm
Maximum Flow Rate	12 gpm	30 gpm	30 gpm	12 gpm	60 gpm
All units have the electronic totalizer as a standard feature.					

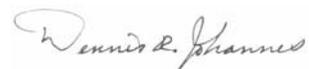
Back-lighted liquid crystal displays (LCD)  
 Battery back-up for up to 72 hours  
 Electronic totalizer with volume and sales up to 9 999 999.99 units  
 Nozzles lane-oriented and high-hose attachment

Down loadable software  
 Category 1 device (see Sealing)  
 Stand-alone or console controlled

**Options:**

Lever-activated nozzle	Key control	Programmable pump preset
Cash/credit	Preset cash and/or credit	Cash acceptor
CRIND (card reader in dispenser)	10.4 inch LCD display	InfoScreen
TRIND (transmitter/receiver in dispenser)	Intercom/overhead speaker	Bar code scanner
Full vapor recovery balance (booted)	Vapor recovery ready	"VaporVac"
Brand lighting/Light conduit	10.4 inch "Touch Screen" display	5.7 inch "Monochrome" display
10.4 inch "Soft Key" display	Push-to-start (activates pump if nozzle is lifted)	
Electrical mechanical totalizer (up to 999 999.9 units)		
Alternate fuels (Up to 100% Ethanol and 100% bio-diesel)		
Automatic Temperature Compensation (ATC) (See Note under Identification on Page 3.)		

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.



Effective Date: May 17, 2007

Dennis Johannes, Director

**Gilbarco Inc.**  
**Retail Motor Fuel Dispenser**  
**Model: Nxx Series**

**Application:** For use in dispensing standard fuels such as gasoline, gasoline with up to 15% ethanol and gasoline with up to 15% methanol blend types and diesel fuel, fuel oil, kerosene and up to 20% biodiesel products as indicted in Section C. "Product Families for Meters" table in NCWM Publication 14, Measuring Devices at retail service stations, attended or unattended, with approved and compatible equipment. Units equipped with the Murray meter are additionally approved for dispensing alternate fuels such as gasoline with greater than 15% Ethanol and diesel with greater that 20% biodiesel (i.e., up to 100% Ethanol and 100% Bio-diesel). These dispensers are approved for use with Phase II vapor recovery equipment and approved booted or bootless nozzles when the system and components are certified and comply with the zero-set-back interlock requirements.

**Model Designation:** The specific characters in the model designation are represented below:

Position 1	Position 2 and 3	Hydraulics Description	Grade/Hose	Not Part of Model Code
N = Encore	A0	Dispenser	1 Grade	A = Multi-House
	A1	Dispenser	2 Grade	
	A2	Dispenser	3 Grade	
	A3	Dispenser	4 Grade	
	B0	Dispenser	1-Grade (Alternative fuel)	B = Multi-Hose
	B1	Dispenser	2-Grade (Alternative fuel; 2 grades)	
	B2	Dispenser	3-Grade (Alternative fuel; 1 grade)	
	B3	Dispenser	4-Grade (Alternative fuel; 1 grade)	
	B4	Dispenser	4-Grade (Alternative fuel; 2 grades)	
	C0	Pump	1 Grade	C = Multi-Pump
	C1	Pump	2 Grade	
	C2	Pump	3 Grade	
	C3	Pump	4 Grade	
	F0	3 Grade + 1	(Alternative fuel, 1 grade)	F = Single hose + 1
	F1	4 Grade + 1	(Alternative fuel, 1 grade)	
	F2	4 Grade + 2	(Alternative fuel, 2 grades)	
	G0	Dispenser Single Hose	3 Grade	G = Single Hose
	G1	Dispenser Single Hose + 1	3 + 1 Grade	
	G2	Pump Single Hose	3 Grade	
	G3	Pump Single Hose + 1	3 + 1 Grade	
	G4	Dispenser Single Hose	2 Grade	
	G5	Pump Single Hose	2 Grade	
	J0	Blender Dispenser	3 Grade	J = Multi-Hose Blender
	J1	Blender Pump	3 Grade	
	J2	Blender + 1 Dispenser	4 Grade	
	J3	Blender + 1 Pump	4 Grade	
	L0	Blender Dispenser X + 1	2 + 1 Grade	L = X + 1 Blender
	L1	Blender Dispenser X + 1	3 + 1 Grade	
	L2	Blender Dispenser X + 1	4 + 1 Grade	
	L3	Blender Dispenser X + 1	5 + 1 Grade	
	L4	Blender Pump X + 1	2 + 1 Grade	
	L5	Blender Pump X + 1	3 + 1 Grade	
	L6	Blender Pump X + 1	4 + 1 Grade	
	L7	Blender Pump X + 1	5 + 1 Grade	
	M0	Blender Dispenser 2+1	(Alternative fuel; 1 grade)	M = X + 1 Blender
	M1	Blender Dispenser 3+1	(Alternative fuel; 1 grade)	
	M2	Blender Dispenser 4+1	(Alternative fuel; 1 grade)	
	M3	Blender Dispenser 3+1+1	(Alternative fuel; 2 grades)	
	N3	Blender Dispenser X + 0	5 + 0 Grade	
	N4	Blender Pump X + 0	2 + 0 Grade	
N5	Blender Pump X + 0	3 + 0 Grade		
N6	Blender Pump X + 0	4 + 0 Grade		
N7	Blender Pump X + 0	5 + 0 Grade		
P0	Super-Hi Dispenser	1 Grade	P = High Flow	
P1	Super-Hi Master	1 Grade		
P2	Super-Hi Combo	1 Grade		
P3	Ultra-Hi Master	1 Grade		
P4	Ultra-Hi Combo	1 Grade		
P5	Ultra-Hi Satellite	1 Grade		

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**Identification:** The identification badge, metal or a self-destructive badge is on the lower base plate below the access panel covering the hydraulics cabinet or located behind the locked main options door. Optional features are indicated on the identification plate.

**NOTE: The dispenser and printed receipt will show the volume has been corrected to 15 °C (60 °F) when using the temperature compensation option.**

**Sealing:** The Encore Series device has no remote configuration capability and is classified as a Category 1 device. Access to all metrological features and functions are controlled through the use of a sealable security switch. The security switch has two positions, “normal/sealed” and “calibration/configuration.” When the security switch is in the “calibration/configuration” position, sealable parameters including meter calibration, gallon/liter settings, and blend ratio settings can be accessed. Access to sealable parameters is prevented by placing the security switch in the “normal/sealed” position and threading a wire security seal through the cover, which fits over the security switch. The wire security seal must be broken in order to lift the hinged cover and to move the security switch to the “calibration/configuration” position. The security switch and Manager’s keypad are located behind the locked main options door. Access to the security switch and Manager’s keypad requires opening the options door.

When using temperature compensation the temperature probes have provisions to seal the probes in place.

The alternate fuel dispenser uses Murray Model 989 meters. The meter located in the dispenser’s hydraulic cabinet is provided with a calibration wheel located on the top of the meter. The calibration wheel shall be sealed with a physical sealing means.

Encore “S” series may also have a user provided lock that must be accessed. The locked lower hydraulics door must be removed to access the user provided lock. This locks a “tool box” type latch that secures the main door. To access features located behind the main door first remove the lower hydraulics door, then unlatch the main door’s “tool box” latch, then open the main door. The main door is secured with a lock/key and the lock is located on the left side of the door. The Manager’s keypad is secured to a metal “Vault” that prevents access to the keypad without opening the main door. These changes are required to deter unauthorized access to the unit that may result in undetected fraudulent activities.

*Electronic Calibration (E-cal):* Access to the electronic calibration feature is through the security switch described above. With the switch in the “calibration/configuration” position, a calibration code and the volume of the volumetric standard are entered into the keypad next to the security switch. Product is then dispensed into the standard, a delivery error is determined in cubic inches, and the error value is entered into the keypad. The security switch is then returned to the normal operating (“normal/sealed”) position and the switch cover is sealed with a wire security seal.

*Gallon/Liter Setting:* Access to the gallon/liter setting is through the security switch described above. With the switch in the “calibration/configuration” position, a conversion factor is used to program all Encore® Series dispensers to indicate in gallons or liters. Gallon/liter setting information can also be viewed without entering the configuration mode. With the switch in the “normal/sealed” position, the number of times that the conversion factor has been changed since the initial installation can be displayed in the main “Volume” display by pressing “ENTER” on the manager’s keypad. Press any other key to revert to the normal display. See “examples” shown below.

*Blend Ratio Setting:* Access to the blend ratio setting is through the security switch described above. On customer-selectable and fixed-blenders, the individual blend ratios for each grade may be programmed at the dispenser. Blend ratio information can also be viewed without entering the configuration mode. With the switch in the “normal/sealed” position pressing “ENTER” on the manager’s keypad causes the display at the dispenser to indicate the number of times the blend ratio has been changed as shown below.

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**EXAMPLES:** The **ENTER** key is used to display blender information on a unit that is configured for blends. If the unit is not a blender then no action is taken when the **ENTER** key is depressed. The **CLEAR** key is used to exit blend info mode. The unit will also exit blend info mode after one minute has elapsed.

Blend information is displayed in the following format:

**Sale Display:** XXXX - Number of times blend ratios have been adjusted. Example - 0018 would indicate that the blend ratios have been changed 18 times.

**Volume Display:** XXXX - Number of times volume units have been adjusted. Example - 0019 would indicate that the volume unit has been changed from liters to gallons and gallons to liters a total of 19 times.

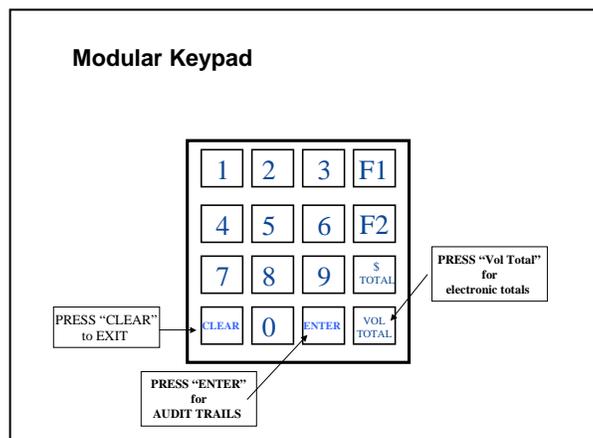
**PPU Grade Display:** XXX - Each PPU grade will display the percentage of the lowest octane pure product portion of the blend. Example: A three-grade blender could show this: PPU 1 100, PPU 2 83, PPU 3 75. This would indicate that grade one was composed of 100% of the low octane pure product, grade two was composed of 83% of the low octane pure product, and grade three was composed of 75% of the low octane pure product.

**Operation:** Gilbarco Smart Meter, Model M02950A001 is an alternate to the Gilbarco C+ meter and the LC M5 series meters and is located in the side column of the dispenser. The Gilbarco "Smart Meter" (is a counter rotating twin turbine inferential meter that accurately meters retail motor transportation fuels. (Diesel fuel, gasoline, gasoline/ethanol, and gasoline/methanol blend types of products. Each meter is equipped with a electronic printed circuit board that contains a "calibration curve" that is unique to that individuals meter's configuration. (Bore size, internal components such as bearings, spacers and rotors including the individual tolerances of all components) Replacement of any internal component changes the metrological characteristics of the meter. The calibration curve data cannot be accessed or changed in the field. The PBC is encapsulated to prevent tampering. Rotations of the turbines are detected by electronic pick-ups (located on the PCB) through the meter body. This electronic signal is then converted to volumetric display by the dispenser electronics. Traditional Gilbarco Pulsers are not used. The meter is not suitable for field repair.

The vacuum-assist vapor recovery option for the Encore® Series consists of an explosion-proof motor driving a vacuum pump. The motor(s)/pump(s) are in the hydraulic section of the dispenser. The PC board for the electronic vacuum pump-controller is in the electronic section of the dispenser. The PC board monitors the rate at which gasoline is dispensed and then proportionally controls the motor(s)/pump(s) speeds. The rate of vapor recovery is proportional to the product flow rate. Each hose is equipped with an electronically operated vapor valve, which operates without isolating hoses.

Dispensers equipped with the "TRIND" (transmitter/receiver in the dispenser) are authorized by radio frequency communication. The transponder tag, mounted in the vehicle or hand-held unit, communicates to the receiver in the dispenser of the customer's predetermined preferences. The transponder may be overridden by using a credit card or the transaction canceled by pressing the "CANCEL" button. Transponders are not capable of concurrent use at multiple fueling positions or consecutive use at the same dispenser.

For units with electronic totalizers (effective April 1, 1998), you can retrieve totals electronically at the pump or dispenser by using the modular keypad. This keypad sits behind the locked access door on the "A" side of the electronics module. For the Encore® Series, it mounts on a removable magnetic pad that attaches to the inside cabinet behind the left or right option door.

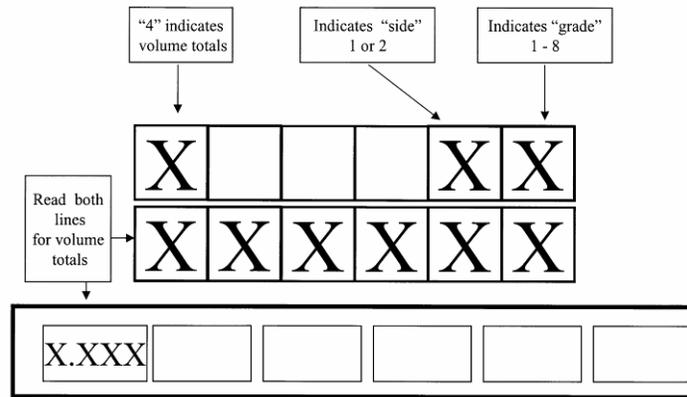


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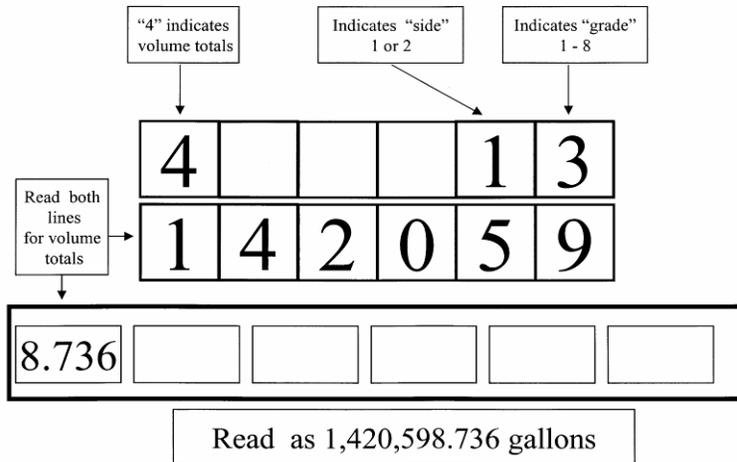
The **VOL TOTAL** key is used to retrieve volume totals for each fuel grade. These key functions do not require a security code to access. Just press the **VOL TOTAL** button. The **CLEAR** key is used to exit volume total or audit trail modes.

**Retrieving VOL TOTAL Examples:**

- Press **VOL TOTAL** - display changes from normal to volume totals
- Press **Enter** to change the flashing display location to the first digit
- Press **1** for side one or **2** for side two
- Press **Enter** - flashing display moves to the second digit
- Press **1** or **2** or **3** or **4** or **5** or **6**, etc., for grades
- Read electronic totalizer for each side and grade
- Press **Clear** to return to normal mode



The sample below shows a volume total of **1 420 598.736** gallons on side 1, product 3.  
Electronic totalizer can display up to 9 999 999.999 units (gallons or liters).

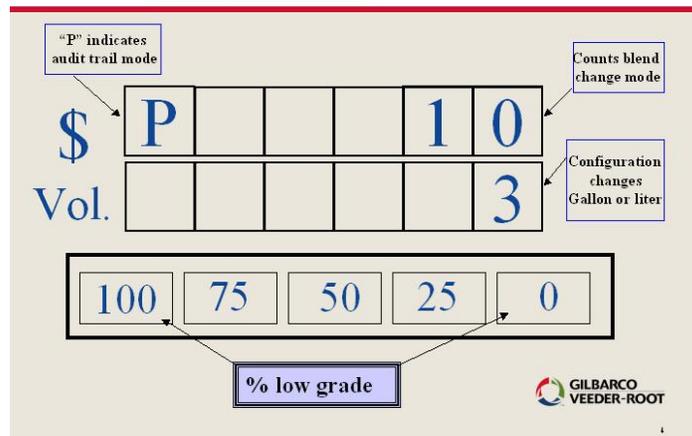


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The Encore is provided with a means to change the multiple meters calibration with one sealable means. As a result, HB 44 regulations were changed to require that a means be provided to determine which meter was calibrated.

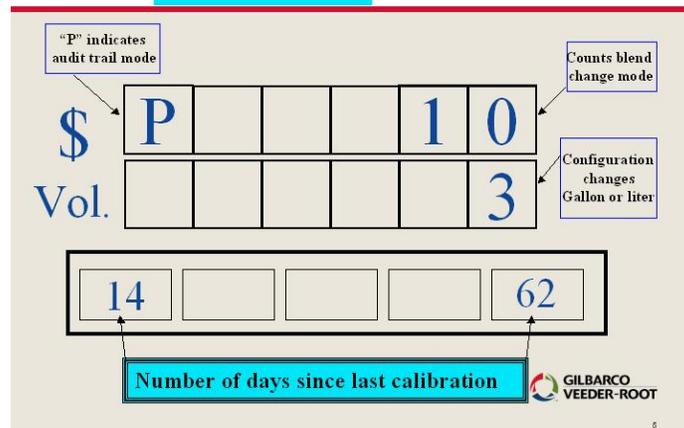
Gilbarco provides a method to determine the number of days, number of times, and number of pulses per gallon/liter for each meter on units manufactured after January 1, 2005. Using the manager's keypad press the "Enter" button. The first time the Enter key is pressed the display changes as shown below.

**Encore / Eclipse audit trail Display**  
press **Enter 1st time**



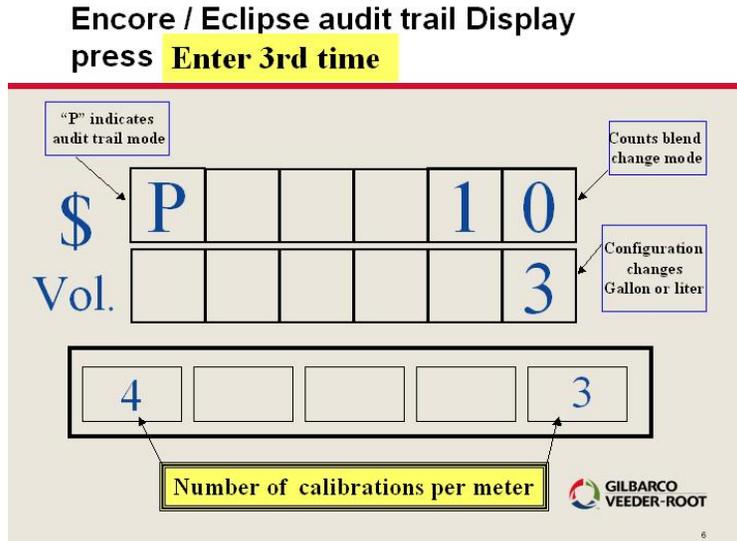
Pressing the Enter key a second time, the display will show the number of days.

**Encore / Eclipse audit trail Display**  
press **Enter 2nd time**

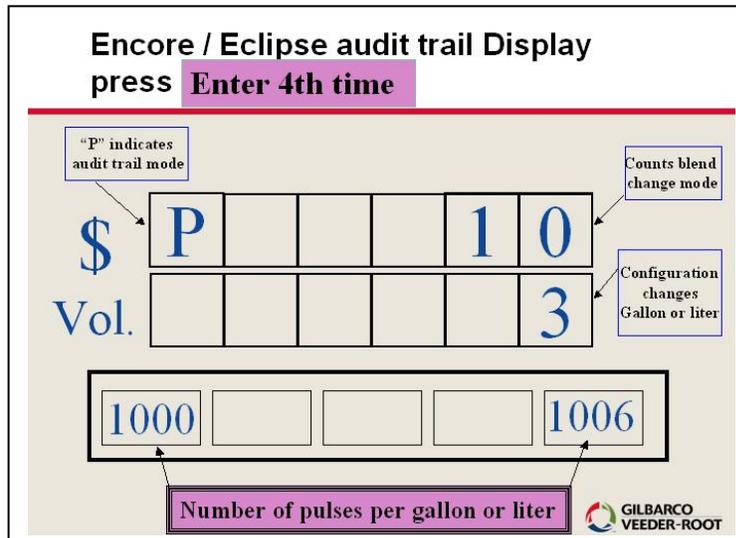


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Pressing the Enter key the third time indicated the number of calibrations per meter.



Pressing the Enter key a fourth time indicated the number of pulses per gallon or liter.



Press the “Clear” key returns the display to the normal mode. Note that the display will return to the normal mode if a key is not pressed within 45 seconds.

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**Test Conditions:** This certificate supersedes Certificate of Approval Number 5510-07 and is issued to correct the previous test conditions. This certificate is issued to add electronic Automatic Temperature Compensation. A Model NA2 dispenser with a C+ meter was submitted for evaluation. Over 70 five gallon test drafts were conducted with fuel temperatures from 48 °F to 96 °F for accuracy, repeatability, and of temperature compensated (corrected to 60 °F) and non-temperature compensated deliveries. Tests for permanence were repeated 30 days later. An acceptance tolerance of  $\pm 3$  cubic inches was applied. Repeatability tolerance applied was 2 cubic inches. A tolerance of 2 cubic inches was applied to the errors between the uncompensated and compensated test results. Previous test conditions are listed below for reference.

**Certificate of Approval Number 5510-07:** This certificate superseded Certificate of Conformance Number 02-019A7 and was issued to add electronic Automatic Temperature Compensation. A Model NA2 dispenser with a C+ meter was submitted for evaluation. Initially over 70, five gallon test drafts were conducted with fuel temperatures from 48 °F to 96 °F for accuracy, repeatability, and of temperature compensated (corrected to 60 °F) and non-temperature compensated deliveries. Tests for permanence were repeated 30 days later. An acceptance tolerance of  $\pm 3$  cubic inches was applied for normal tests and  $\pm 5.5$  cubic inches for special tests. Repeatability tolerance applied was 2.4 cubic inches. A tolerance of 0.1% was applied to the meter errors between the uncompensated and compensated test results.

**Certificate of Conformance Number 02-019A7:** This certificate superseded Certificate of Conformance number 02-019A6 and was issued to add alternate fuels such as E100 (100% ethanol), E85 (gasoline with 85% ethanol), and B100 biodiesel (100% biodiesel) or any biodiesel blend greater than 20%. The alternate fuel dispenser uses a Murray Model 989 meter. The meter located in the dispenser's hydraulic cabinet is provided with a calibration wheel located on the top of the meter. The calibration wheel shall be sealed with a physical sealing means. The dispenser with the Murray meter and console were evaluated and tested at the manufacturer's facility using the 2006 Edition of NCWM Publication 14 as the basis for the evaluation. E100 (100% ethanol) and "Worthpar7" (10 centipoise) were used as the test fluids. Accuracy testing was done at 3 flow rates for both the initial and subsequent test. Each meter was retested after a minimum of 23 days use and having dispensed 30 600 gallons E100 and 30 200 gallons of B100. The device complies with applicable requirements.

**Certificate of Conformance Number 02-019A6:** This certificate superseded Certificate of Conformance number 02-019A5 and was issued to indicate updated instructions needed to access the unit's event counters due to a change in HB 44 regulations, add "S" to the Encore 300 (new bezel currently used in other Encore models), and update fuels to include the Product Families for meters table in NCWM Publication 14. No additional testing was deemed necessary.

**Certificate of Conformance Number 02-019A5:** This certificate superseded Certificate of Conformance number 02-019A4 and was issued to indicate updated instructions needed to access the unit's sealable switch and Manager's keypad. See instructions under **Sealing** Encore "S" series. All switch and keypad functions/features remain the same. This only affects units with the "S" model numbers. The location of the keypad "on a drop down bracket" as noted in 02-019A4 were revised before production started. These changes are required to deter unauthorized access to the unit that may result in undetected fraudulent activities. No additional testing was deemed necessary.

**Certificate of Conformance Number 02-019A4:** This certificate superseded Certificate of Conformance number 02-019A3 and was issued to indicate a new Generic Name, Encore 350S, Encore 500S, and Encore 550S. The "S" or "Stylized" Series has a new main door that offers customers a "new look" and a larger main display. The manager's keypad is located behind the locked printer door on a drop down bracket. All other functions/features remain the same. The model numbers remain the same. Units with the new main door show an "S" after the Generic Name. No additional testing was deemed necessary.

**Certificate of Conformance Number 02-019A3:** This certificate superseded Certificate of Conformance number 02-019A2 and was issued to indicate a change in Family names. Encore 550 represents the model containing the Smart Meter and Smart Connect. Smart Meter is detailed under NTEP Certificate of Conformance Number 03-049. Smart Connect is a new PCB that facilitates remote diagnostics capability. This model is identical to the Encore 500 plus Smart Meter. The Family name of Encore 350 is will be used to define models with the standard Gilbarco C+ meter. This series is identical to the Encore 500 series.

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**Certificate of Conformance Number 02-019A2:** This certificate superseded Certificate of Conformance number 02-019A1 and was issued to indicate a new meter. See Certificate of Conformance Number 03-049 for detailed test information. The emphasis of the evaluation was to assure that the new meter functioned as evaluated in NTEP CC 03-049 and that the dispenser's electronics continued to function with the new meter. An Encore Series dispenser with the Smart Meter installed was connected to the manufacturer's G-Site control console. The dispenser and console were evaluated and tested at the manufacturer's facility using the 2003 edition of NCWM Publication 14 as the basis for the evaluation. Additional meter accuracy testing was conducted at several flow rates.

**Certificate of Conformance Number 02-019A1:** This certificate superseded Certificate of Conformance Number 02-019 and was issued to indicate an alternate location of the identification badge behind the main options door. The location was changed in accordance with HB 44 S.4.4.2. "Location of Marking Information; Retail Motor-Fuel Dispensers". A key is required to access this portion of the dispenser. Also, under "Sealing" a section was added to better describe the locations of the security switch. The part number of the LC meter used for ultra-hi flow modes was changed from P9550/9560 (M5) to P9xxx (M5). The P9xxx indicates non-metrological changes to the LC M5 meter. No additional tests were considered necessary.

**Certificate of Conformance Number 02-019:** This certificate superseded Certificate of Conformance Number 00-035A2 and was issued to indicate the transfer of ownership from 00-035A2 to 02-019. The NTEP Certificate of Conformance 00-035A2, though inactive, remains in effect to cover those devices previously sold and installed under the original name. Previous test information and documentation provided by the company was reviewed.

**Certificate of Conformance Number 00-035A2:** This Certificate superseded Certificate of Conformance Number 00-035A1 and was issued to reflect a change in the model's base electronics options. The new optional electronics in the Encore comes directly from the manufacturer's Advantage Series, Certificate of Conformance Number 99-173. The model with the Advantage Series electronics option will be identified as Encore 300. The manufacturer's current Encore will be renamed Encore 500. For all models, Encore, Encore 500 and the new Encore 300, the Audit trail, Electronic totalizers and Electronic meter calibration remain the same as currently shown in this Certificate. This certificate also adds two new models NG4, Dispenser Single Hose, 2 Grade and NG5, Pump Single Hose, 2 Grade to the model code section of this certificate. These models represent are same as previously evaluated models, minus one hose position, and does not represent a change that requires additional evaluation. This Certificate is issued based upon information provided by the manufacturer, the previous evaluation, and the evaluation of the manufacturers Advantage series. The units hydraulics section (meters, valves, piping, filters, etc.) have not changed. Due to all components having active Certificates of Conformance, additional type evaluation or field permanence testing is not required.

**Certificate of Conformance Number 00-035A1:** This Certificate superseded Certificate of Conformance Number 00-035 and was issued to correct the method of sealing used in the device, to reflect the elimination of the event logger capability from the device, and to include additional information in the original test conditions. This Certificate is issued based upon information provided by the manufacturer, the previous evaluation, and an evaluation of the sealable features on a recently installed unit.

An Encore Series dispenser was installed in a field site interfaced with a console for the purposes of this evaluation. The emphasis of the evaluation was on the method of accessing the sealable features on the device and the security provided to control access to the features. A summary of the changes to the Certificate as a result of the current evaluation are outlined below followed by the previous test conditions.

The original Certificate incorrectly stated that the blend ratios can be configured at the device or remotely through the console. All sealable features, including the blend feature, are accessed only through a physical switch at the device, which is protected by a physical security seal. Because its sealable features cannot be accessed remotely, the device is categorized as a "Category 1" device. Access to these features is protected by a physical seal as described under "Sealing." The operation of the physical switch to access sealable parameters and the method of sealing that switch were evaluated in the original evaluation of the device. Additionally, the current operation of accessing and securing the sealable parameters was verified as described in the evaluation above.

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The original Certificate listed an “event logger” as a feature for providing information concerning changes to sealable parameters. An event logger is required for devices with unlimited remote access, that is, for “Category 3” devices. While the device originally evaluated included an event logger similar to that required in Category 3 devices, the device did not have unlimited remote access and an event logger was not required; the manufacturer chose to provide the event logger only as supplemental information. The manufacturer has now chosen to eliminate the event logger feature from the device. As a Category 1 device, the device does not have unlimited access to sealable parameters, and an event logger is not required. The deletion of this feature was confirmed during the evaluation described above, and the Certificate has been modified accordingly.

**Certificate of Conformance Number 00-035:** The emphasis of the evaluation of this device, generically known as the Encore Series, was on the operation and performance of the device. A unit was evaluated at the manufacturer’s facility where more than 1 000 000 gallons of product were run through the device. Additionally, a unit was installed in a field installation where it was evaluated initially and again after 20 days to evaluate the operation of the electronics. Tests were conducted at both the field sites and laboratory for all options listed on page 1 of this Certificate. Additionally, the options listed on page 1 are identical to those evaluated in conjunction with Certificate of Conformance Number 90-115A9 for the Marconi (formerly Gilbarco) Advantage Series.

The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

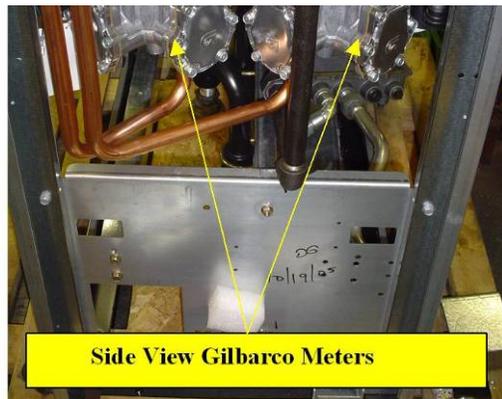
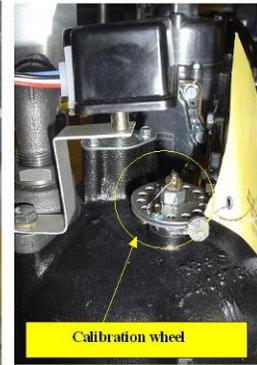
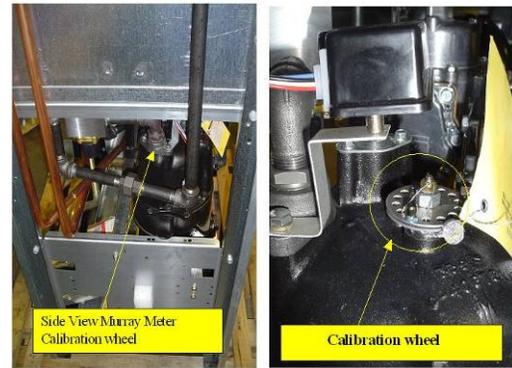
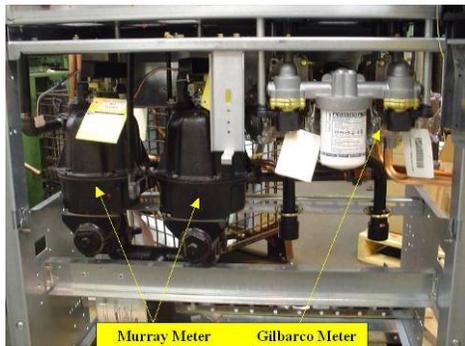
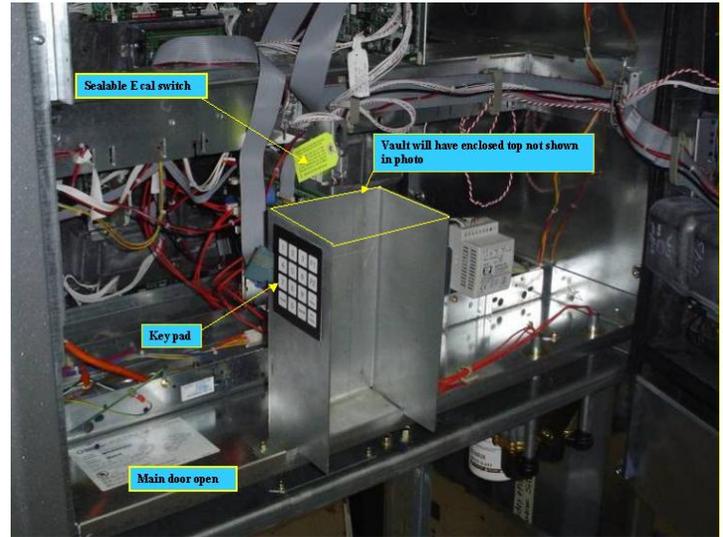
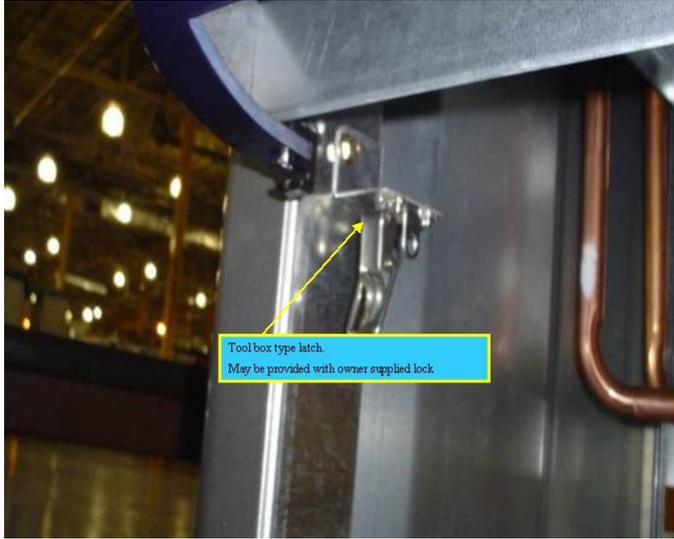
**Evaluated by:** R. Murdock, J. Butler, W. Scruton (NC) 00-035; R. Murdock, J. Butler (NC) 00-035A1; J. Butler (NC), W. Scruton (NC) 02-019A2, 02-019A3; J. Butler (NC), 02-019A6; J. Butler, Katalinic (NC), 02-019A7; D. Reiswig (CA) 5510-07 and 5510(a)-07

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2007 Edition

**Information Reviewed By:** T. Butcher, L. Sebring (NIST) 00-035A1; S. Patoray (NCWM) 00-035A2, 02-019, 02-019A1, 02-019A2, 02-019A3, 02-019A4; L. Bernetich (NCWM) 02-019, 02-019A1, 02-019A2, 02-019A3, 02-019A4, 02-019A5, 02-019A6, 02-019A7

**Gilbarco Inc.**  
**Retail Motor Fuel Dispenser**  
**Model: Nxx Series**

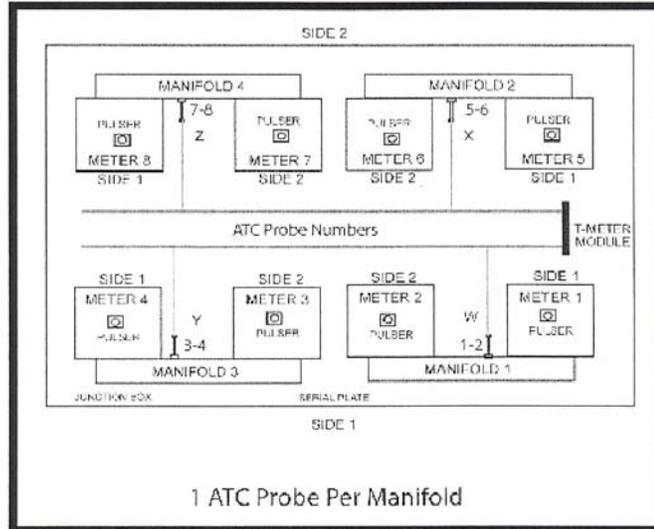
**Examples of Nxx Series**



**Gilbarco Inc.**  
**Retail Motor Fuel Dispenser**  
**Model: Nxx Serie**

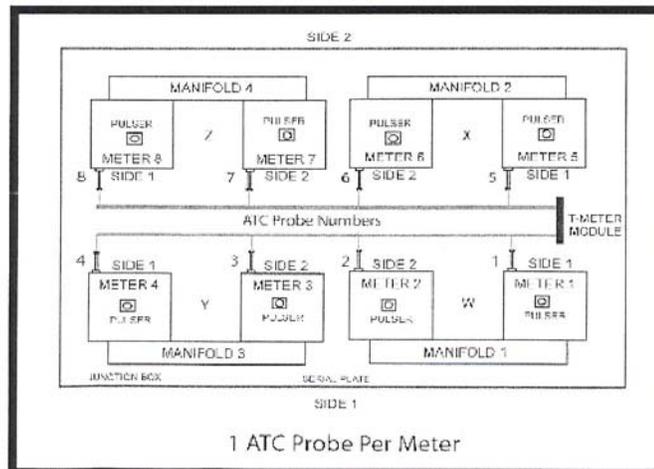
**Encore 300/350/ 500 METER PROBE MAPPING**

**1 ATC probe per manifold**



**Encore 300/350/ 500 METER PROBE MAPPING**

**1ATC probe per meter**



**Gilbarco Inc.**  
**Retail Motor Fuel Dispenser**  
**Model: Nxx Serie**

Two configuration examples of Encore dispensers.

