

Appendix C: Dispenser, Hanging Hardware, Shear Valve, and Submersible Turbine Pump Manufacturer Compatibility

Table C. Dispenser, Hanging Hardware, Shear Valve, and Submersible Turbine Pump Manufacturer Compatibility

Manufacturers introduce and discontinue models over time. If you do not see your equipment on this list please contact the manufacturer.

Manufacturer	Product	Model	Ethanol Compatibility
UL E25 and E85 Listed Equipment			
Gilbarco	Dispenser	An option on remote control dispenser Models NAO, NA1, NA2, NA3, NG1, NG6, NLO, NL1, NL2, and NL3. Models NG1, NG6, and NLO-NL3 are X+1 configurations where X is a number of blendable grades running through one hose on each side and the +1 indicates a dedicated, independent, set of hydraulics. E25 may only be on the +1 side (no ethanol blending). For such split-type dispensers, the independent non-E25 hydraulics may be constructed.	E0-E25
Gilbarco	Dispenser	An option on remote control dispenser Models NAO, NA1, NA2, NA3, NNO, NN1, NN2, NN3, G1, G6, LO, L1, L2, and L3 and NJ4. Models NG1, NG6, and NLO-NL3 are X+1 configurations where X is a number of blendable grades running through one hose on each side. Model NJ4 is a 3+2 grade (double blender) with two distinct fuel trees as described above, and the +1 indicates a dedicated, independent, set of hydraulics. Hydraulics trees marked as suitable for E85 are suitable for blending mid-level grades.	E0-E85
Wayne	Dispenser	Ovation2 B12//9 and B23//9	E0-E25
Wayne	Dispenser	Ovation 2 EB23/4, EB23/5/M Dual Blender, EB23/5/M5 Double Dual Blender; Helix 3-1-1 H(W/LU)43-43E, 3-1-1 H(W/LU)45-43E/M5 Dual Blender, 3-1-1 H(W/LU)35-33E Double Dual Blender	E0-E85
Franklin Fueling	Shear valve	Franklin has third-party certified shear valves compatible with up to E85. Contact manufacturer for specific part numbers.	E0-E85
Franklin Fueling	Submersible turbine pump	Franklin has third-party certified STPs compatible with up to E85. Contact manufacturer for specific part numbers.	E0-E85
Husky	Nozzle	X E25, X E25 Cold Weather, XS E25, XS E25 Cold Weather	E0-E25
Husky	Nozzle	X E85, X E85 Cold Weather, XS E85, XS E85 Cold Weather	E0-E85
Husky	Breakaway	E25 Safe-T-Breaks	E0-E25
Husky	Breakaway	E85 Safe-T-Breaks	E0-E85

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55- E15 Dispensers/Pumps
Encore 700's NLI
w/ T19976 G3 meters



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Retail Motor Fuel Dispenser (RMFD)
Electronic Computing
Model: Nxx Series (See Page 3 for Model Designation)
Generic Names: Encore 300, Encore 300S, Encore 500,
Encore 500S, Encore 550, Encore 550S, Encore 700S,
Encore 800, Encore 900
Capacity: \$9999.99 Total Sale / 9999.99 Total Volume
\$9.999 Maximum Unit Price

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Standard Features and Options

Meter Model Numbers:	T19976-G3 ^{*1,2} ; T19976-V3 ^{*1,2} T19976-V10 ^{*1,2} ; T19976-G5 ^{*3,4}	M07300A001 ^{*1} ; M07300A002 ^{*1} ; M07300A003 ^{*1} M07300A004 ^{*1} ; M07300A005 ^{*1} ; M07300A006 ^{*1}	P9XXX ^{*1}
Name:	"C" or "V" Meter	Ecometer	LC M5 Series
Minimum Flow Rate:	0.5 GPM	0.5 GPM	5 GPM
Maximum Flow Rate:	12 GPM	10 GPM	60 GPM
*Fuels types:	*1	Gasoline up to E15; Diesel up to B20; fuel oil, kerosene	
	*2	Gasoline up to E25; isobutanol up to 16% (iBu 16)	
	*3	Gasoline up to E85; isobutanol up to 16% (iBu 16)	
	*4	E100; B100; isobutanol up to 16% (iBu 16)	

Features:

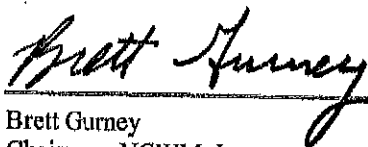
- All Units Have the Electronic Totalizer as a Standard Feature
- Back-lighted Liquid Crystal Displays (LCD)
- Display Back-up for up to 72 Hours
- Electronic Totalizer with Volume and Sales up to 9 999 999.99 units
- Nozzles Lane-oriented and High-hose Attachment
- Down Loadable Software
- Category 2 or Category 3 Device (see Sealing) Page 2
- Stand-alone or Console Controlled

Options:

- TRIND (transmitter/receiver in dispenser)
- Encrypted: Card Reader, Pin Pad and Display (PCI-1; PCI-2) referred to as (NGP or FlexPay II or FlexPay IV)
- Cash/Credit
 - 5.7" "Monochrome" Display
- Preset Cash and/or Credit
 - 10.4" or 15.6" LCD Display
- Cash Acceptor
 - 10.4" "Touch-Screen"
- CRIND (card reader in dispenser)
 - 10.4" "Soft Key" Display
- Intercom/Overhead Speaker
 - InfoScreen
- Key Control
 - Bar Code Scanner
- FlexPay IV
 - InSite360
- High security locks*
 - Customer provided locks*
- Security sensors / Switches*
 - FlintLoc Security System*
- Push-to-Start (activates pump if nozzle is lifted)
 - VaporVao
- Full Vapor Recovery Balance (booted)
- Vapor Recovery Ready
- Programmable Pump Preset
- Lever-activated Nozzle
- SMART-CRIND
- SmartCRIND II
- Electronics security shields*
- Managers Keypad*

***Contact station personnel for Dispenser keys, Manager's keypad and access to the dispenser.
ALARM may sound. Dispenser may be disabled. See Dispenser Security. See Sealing**

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.


Brett Gurney
Chairman, NCWM, Inc.


James Cassidy
Chairman, National Type Evaluation Program Committee
Issued: July 23, 2018



Gilbarco, Inc.

Retail Motor Fuel Dispenser (RMFD) / 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 T19976-G3 or V3 meter are additionally rated for up to E25. Units equipped with the Gilbarco T19976 G5 meter are additionally approved for dispensing alternate fuels such as gasoline with greater than 25% Ethanol and diesel with greater than 20% biodiesel (i.e. up to 100% Ethanol and 100% Bio-diesel). E25 and E85 rated units may also be used with up to 16% isobutanol. (iBu 16) The Ultra High series with the LC M5 meter are approved to dispense gasoline and diesel fuels. 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. Gilbarco self-contained dispensers (unit with a pump and a motor) are provided with onboard automatic air elimination. Gilbarco remote dispensers (units do not have motor and pump) require the use of a remotely located pump. These remote dispensers require automatic air elimination at the remote pump / STP, or the use of a low product cut off that will prevent air from entering the pump if the fluid level in the tank falls below a point that air could be ingested into the system or the use of other automatic means to prevent air from entering the system.

Dispenser Security:

W&Ms officials should contact site personnel for keys, keypads and access before opening the main door, lower hydraulics door or removing side columns. Site operators should note that access to the dispenser for W&Ms testing is required by NIST Handbook 44. Station personnel may need to provide W&Ms officials with dispenser keys, Manager Keypads, assistance in turning off dispenser alarm systems and provide access to the dispensers.

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As a means to deter fraudulent activities / tampering and increase dispenser security, Gilbarco Encore series dispensers may be equipped with the following options:

- **Security sensors - W&Ms officials should contact site personnel for access prior to opening any door or panel on the dispenser.** Security sensors may be used with the lower hydraulics panel, the main electronic bezel door, printer doors, side columns and cash acceptors. Sensors may trigger audible alarms, lights, notify the station operator or law enforcement that a door or panel has been opened. The dispenser may not fuel until the security issue has been resolved.
- **Calibration switch and Manager's Keypad - W&Ms officials should contact site personnel for access prior to opening any door or panel on the dispenser.** The calibration switch and Manager's keypad are located behind the locked main electronics door. Access to the calibration switch and Manager's keypad requires opening the main electronics door. Due to security concerns and theft issues, many stations have removed the Manager's Keypad from the unit. Manager's keypad(s) are shipped with each dispenser.
- **High security locks - May be provided on the main electronics door, printer door, cash acceptor door and lower hydraulics doors. W&Ms officials should contact site personnel for keys and access to dispensers.** Gilbarco cannot duplicate or furnish replacement keys for the high security locks.
- **Customer provided locks - May be provided on the main electronics door, printer door, cash acceptor door and lower hydraulics doors, Gilbarco cannot duplicate or furnish replacement keys for customer provided locks. W&Ms officials should contact site personnel for keys and access to dispensers.**
- **Gilbarco dispenser keys - Gilbarco will no longer provide dispenser electronics keys or lower hydraulics keys to W&Ms officials. W&Ms officials should contact site personnel for keys and access to dispensers.**
- **Lower hydraulics panel - The lower hydraulics panel may have additional hardware and uses a special security lock furnished by customer. W&Ms officials should contact site personnel for key and access to dispensers.**
- **Card readers and PIN Pads. Tampering, removing, disconnecting EMV card readers and EMV Pin pads will cause the device to fail.**