

California Type Evaluation Program
Certificate of Approval
for Vehicle Tank Meters

For:

Electronic Register
Vehicle Tank/Fleet Fueling Systems
Model: MOSF2000 (System)
MG Plus (Vehicle Transaction Computer)
Symbol Technologies PDT6840 (Hand-Held
Scanner)

Submitted by:

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Standard Features and Options

Epson TM-200D receipt printer

Symbol Technologies PDT6840 Hand-Held Scanner:

16-line alphanumeric display
35- or 45-key alphanumeric keyboard
Spectrum24 network communications
DR-DOS operating system

MG Plus (Vehicle Transaction Computer):

RS485 communication interface
Battery back-up memory
DOS operating System
Solid state disk

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: September 25, 2000

Mike Cleary, Director

Symbology Systems, Inc.
Electronic Register Vehicle Tank/Fleet Fueling Systems
Model: MOSF2000 (System), MG Plus (Vehicle Transaction Computer),
Symbol Technologies PDT6840 (Hand-Held Scanner)

Application: For use with approved and compatible vehicle mounted meter systems. The MG Plus computer in conjunction with an approved and compatible electronic register records and stores the individual delivery amounts for vehicles or tanks when there are multiple deliveries per site. The system prints a detailed ticket of the individual delivery amounts and total volume at the end of the delivery.

Identification: MOSF2000 System: The identification badges are located on the MG Plus computer located inside the vehicle cab. The badge is a silver polyester film with tamper slits affixed with a permanent acrylic adhesive. The badge will destroy itself if removed. The Symbol Technologies PDT6840 hand-held scanner has an ID badge affixed on the back side of the case.

Sealing: No sealing is required.

Operation: The approved and compatible computer system provides the registration and recording activities associated with the delivery of product.

The MG Plus vehicle transaction computer with Mobile Wizard software authorizes delivery to an individual tank or vehicle and records via the metered amount of fuel delivered to that tank or vehicle. The tank or vehicle is identified by the driver using the Symbol Technologies PDT6840 hand-held scanner. At the end of the delivery the MG Plus prints a detailed receipt of fuel dispensed by individual tank or vehicle. This system does not compute money transactions (volume only).

Test Conditions: The MOSF2000 fleet fueling system was submitted for evaluation. The emphasis of the evaluation was on design, performance, and compatibility. The system was tested in a lab for agreement of indications, volume computation, and register ticket format. The system was installed on a vehicle mounted Liquid Controls M5 metering system. The Epson TM-U200D printer was attached to the LectroCount LCR to provide ticket printing capability. Three fast and three slow accuracy tests were conducted. The system was put into service and the same tests were repeated approximately 30 days later.

Results of the evaluation indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2000 Edition.

Tested By: Dan Reiswig (CA), Charles Nelson (CA)