

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

Certificate Number: 5404(b)-09
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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Sensus Metering Systems
Hydrocarbon Gas Vapor Meter
Model: (See Table Below)

Submitted by:

Sensus Metering Systems
(formerly Invensys Energy Metering)
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Standard Features and Options

Sensus Metering Systems has purchased Invensys Energy Metering.

The models of Sensus hydrocarbon gas vapor meters listed below, previously approved under the name of Invensys, are approved for sale and use in the State of California.

Model	Previous Certificate Number	Model	Previous Certificate Number
R-275	1683-78	750	586-62
R-275TC	1740-79	750TC	1150-71
RT-275	5404(b)-09	3000	576-62
RT-275TC	5404(b)-09	3000TC	1164-71
S-275	2643-85	5000	3781-92
S-275TC	2643-85	5000TC	634-63
R-315	1741-79	10 000	576-62
R-315TC	3781-92	10 000TC	3781-92
415	570-62	T-18 Mark II Turbo Meter	1288-73
415TC	655-64	T-30 Series "G" Turbo Meter	1165(a)-71

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: November 1, 2009



Edmund E. Williams, Director

**Sensus Metering Systems
Hydrocarbon Gas Vapor Meter**

Application: Approved for use in the measurement of hydrocarbon gases in a legal sub-metering installation.

Identification: An identification plate with the manufacturer's name, meter model number, serial number, and product capacity rate is attached to the front of the meter.

Sealing: Two drilled head screws on the top cover and one on the index register are provided for a continuous wire security seal to prevent access to adjustable components.

Models T-18 and T-30 Turbo Meters: An additional wire security seal may be threaded through a drilled head bolt attaching the register index adapter to the top plate assembly and a drilled head bolt attaching the top plate assembly to the meter body assembly.

Test Conditions: This Certificate supersedes Certificates of Approval 5404(a)-08 and is issued without additional testing to include two new model numbers RT-275 and RT-275TC and the alternative accuWAVE™ diaphragm. The new model numbers are the same construction as the R-275 and the R-275TC respectively with the exception of the 90° ferrule connections in the cover. The current style diaphragm is a single convolution balloon type diaphragm. The alternative accuWAVE™ diaphragm is a molded multi-convolution design.

Certificate of Approval Number 5404(a)-08: This Certificate supersedes Certificates of Approval 5404-04 and is issued to improve the sealing method. No additional testing was required.

Certificate of Approval Number 5404-04: This Certificate is issued to change the manufacturer's name from Invensys Energy Metering to Sensus Metering Systems. No additional testing was necessary based upon the referenced Certificates of Approval and information provided by the manufacturer.

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

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2009 Edition

Information Reviewed By: Norman Ingram (CA) and Van Thompson (CA)

**Sensus Metering Systems
Hydrocarbon Gas Vapor Meter
Model: Sensus (formerly Invensys Energy Metering)**

Sensus R-275



The RT-230 has 5 Lt. connections on 11-1/4" centers and makes use of the internal working parts of the R-275 residential meter.

RT-230
210 SCFH



The same R-275 is converted to an RT-275 by fitting it with 10 Lt. connections on 11-1/4" centers.

RT-275
250 SCFH