



CALIFORNIA DEPARTMENT OF
FOOD & AGRICULTURE

Karen Ross, Secretary

January 4, 2016

DMS NOTICE
G - 16 - 02
Discard: January 2017

TO: WEIGHTS AND MEASURES OFFICIALS

SUBJECT: 2016 Field Reference Manual and Revision Index

The 2016 Field Reference Manual (FRM) and Revision Index are now posted and available on the Division of Measurement Standards' DMS website at:

www.cdfa.ca.gov/dms/publications.html

DMS has revised Chapter 10: Quantity Control, to incorporate the recent revisions promulgated by the Federal Trade Commission (FTC) to the Fair Packaging and Labeling Act and have been included and highlighted in the FRM as being different than the 2016 Edition of NIST Handbook (HB) 130 currently posted on the NIST website. DMS will revise Chapter 10 after NIST HB 130 is amended to include the revised FTC amendments. See [DMS Notice QC - 15 - 12](#) for additional information.

There were no new or amended regulations added in 2015 CCR Title 4, Division 9 for 2016.

New this year, DMS has added a Table of Contents to each chapter, articles, and to applicable sections in NIST HB 44 and HB 130 adopted by reference. Please see attached screen shots with brief instructions on searching through the chapters.

If you have any questions, please contact Lance Simmons, Staff Services Manager, at (916) 229-3000 or by email at Lance.Simmons@cdfa.ca.gov.

Sincerely,

Kristin J. Macey
Director

cc: Gary Leslie, County/State Liaison, CDFA

Attachment



Example: Links within the FRM Chapter

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
DIVISION OF MEASUREMENT STANDARDS


FIELD REFERENCE MANUAL
2016

 California Code of Regulation
 Title 4, Division 9

 Chapter 1
 Tolerances and Specifications for
 Commercial Weighing and Measuring Devices

 Part 3: NIST Handbook 44

 Sections:
 3.30. Liquid-Measuring Devices
 3.31. Automatic Liquid-Measuring Devices
 3.32. Automatic Liquid-Measuring Devices
 3.33. Automatic Liquid-Measuring Devices
 3.34. Automatic Liquid-Measuring Devices
 3.35. Automatic Liquid-Measuring Devices
 3.36. Automatic Liquid-Measuring Devices
 3.37. Mass Flow Meters
 3.38. Carbon Dioxide Liquid-Measuring Devices
 3.39. **Hydrogen Gas-Measuring Devices**
 3.40. Electric Vehicle Fueling Systems – Tentative Code



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CCR § 4000, Application 3.39. Hydrogen Gas-Measuring Devices

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§ 4002.9. Hydrogen Gas-Measuring Devices

A. Application

A.1. General. – This code applies to devices that are used for the measurement of hydrogen gas in the vapor state used as a vehicle fuel.

A.2. Exceptions. – This code does not apply to:

- (a) Devices used solely for dispensing a product in connection with operations in which the amount dispensed does not affect customer charges.
- (b) The wholesale delivery of hydrogen gas.
- (c) Devices used for dispensing a hydrogen gas with a hydrogen fuel index lower than 99.97 % and concentrations of specified impurities that exceed level limits.
- (d) Systems that measure pressure, volume, and temperature with a calculating device to determine the mass of gas accumulated in or discharged from a tank of known volume.

A.3. Additional Code Requirements. – In addition to the requirements of this code, Hydrogen Gas-Measuring Devices shall meet the requirements of Section 1.10. General Code.

A.4. Type Evaluation. [NOT ADOPTED - § 4001, Exceptions.]

S. Specifications

S.1. Indicating and Recording Elements.

S.1.1. Indicating Elements. – A measuring assembly shall include an indicating element that continuously displays measurement results relative to quantity and total price. Indications shall be clear, definite, accurate, and easily read under normal conditions of operation of the device.

S.1.2. Vehicle Fuel Dispensers. – A hydrogen gas dispenser used to fuel vehicles shall be of the computing type and shall indicate the mass, the unit price, and the total price of each delivery.

S.1.3. Units.

S.1.3.1. Units of Measurement. – Deliveries shall be indicated and recorded in kilograms and decimal subdivisions thereof.

S.1.3.2. Numerical Value of Quantity-Value Divisions. – The value of an interval (i.e., increment or scale division) shall be equal to:

D3-111 (DMS 01-01-16)

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