

## STANDARD INFORMATION

**Standard:** CSA C22.2 No. 115

**Standard ID:**

Meter-Mounting Devices [CSA C22.2#115:2025 Ed.8]

**Previous Standard ID:**

Meter-Mounting Devices [CSA C22.2#115:2020 Ed.7+U1]

Meter-Mounting Devices [CSA C22.2#115:2020 Ed.7]

Meter-Mounting Devices (R2019) [CSA C22.2#115:2014 Ed.6]

Meter-Mounting Devices (R2010) [CSA C22.2#115:1989 Ed.5+G1;G2;G3]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **January 1, 2028**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Below are the changes between the CSA C22.2#115:1989 Ed.5+G1;G2;G3 and editions. All products must be certified to the 8<sup>th</sup> edition prior to the effective date.

### Overview of Changes:

- Revisions to Scope
- Revisions to enclosures
- Addition of requirements for busbars
- Revisions to spacings
- Addition of wiring terminal kits
- Addition of grounding and bonding
- Additional markings
- Addition of multiple tests

Specific details of new/ revised requirements are found in table below

***Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.***



## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined-out</del> below.</i>
1	Info	<b>Scope</b> <i><b>New clause added;</b></i>
1.6		This Standard applies to transformer-rated meter-mounting devices that consist of current transformers, meter-sockets, and optional test switches, mounted in the same enclosure rated 600 A or less and 600 V (nominal) or less. <i><b>New clause added;</b></i>
1.7		This Standard does not apply to products under the scope of CSA C22.2 No. 229.
5	Info	<b>Construction</b>
5.2	Info	<b>Enclosures</b>
5.2.1	Info	<b>General</b> <i><b>New clause added;</b></i>
5.2.1.5		Transformer-rated meter-mounting devices shall be equipped with either an automatic shorting device (bypass, circuit closer, etc.) or, at the option of the manufacturer, a four-pole test block of the kind approved by the utility in whose territory the device will be installed.
5.2.6	Info	<b>Covers</b> <i><b>New clause added;</b></i>
5.2.6.7		Each compartment of a combination meter-mounting device shall a) have its own cover; b) be provided with means, such as latches, locks, interlocks, or screws, for firmly securing the cover in place; and c) be removable without disturbing adjacent covers.
5.6	Info	<b>Wiring terminal parts</b> <i><b>New clause added;</b></i>
5.6.4		A meter-mounting device shall be provided with wiring terminals for the connection of line, load-side, and neutral conductors. The terminals shall accommodate the size of conductors for which the meter-mounting device is rated. The meter-mounting device shall be marked in accordance with Clause 6.1h) and i).



CLAUSE	VERDICT	COMMENT
5.7		<b><i>New section added;</i></b> <b>Busbars</b>
5.7.1		Busbars shall be fabricated from either copper or aluminum.
5.7.2		Aluminum busbars shall be suitably plated.  Note: Silver, tin, and nickel are acceptable plating.
5.9	Info	<b>Fastening and support of current-carrying parts</b> <b><i>New clause added;</i></b>
5.9.4		Unless the connection is between parts rated at 200 A or less and only employs copper current-carrying parts, a riveted electrical connection shall comply with one of the following:  a) be constructed with a spring washer (see Clause 5.9.8) at one end of the rivet and either a spring washer or a flat washer (see Clause 5.9.9) at the other end; or b) be subjected to the heat-cycling test for joints in current-carrying parts (see Clause 7.9).
5.9.11		<b><i>New clause added</i></b>  Fully rated current-carrying components (e.g., busbars) shall be supported independent of current transformers.
5.9.12		<b><i>New clause added;</i></b>  The construction of transformer-rated meter-mounting devices intended for field mounting of current transformers shall be such that only busbars, main supply connectors, and secondary wiring are to be assembled in the field. The busbars and supply connectors may be supplied as a kit.
5.11	Info	<b>Spacings</b> <b><i>New clause added;</i></b>
5.11.7		For transformer-rated meter-mounting devices described in Clause 5.9.12, there shall be provision for maintaining the spacings of Clause 5.11 with busbars and supply connectors assembled.
5.11.8		<b><i>New clause added;</i></b>  Bypasses, circuit closers, etc., shall provide a minimum break distance (contact gap) of 6 mm through air, when the meter is installed.



CLAUSE	VERDICT	COMMENT
		<b><i>New clause added;</i></b>
5.11.9		The blades for the potential (voltage) circuit of a test switch shall be capable of being opened to a minimum of 90° from the closed position, or barrier(s) shall be provided to prevent accidental closing.
		<b><i>New clause added;</i></b>
5.11.10		The circuit breaker compartment of a combination meter-mounting device shall comply with spacing requirements in accordance with CSA C22.2 No. 0.19. The electrical spacing shall be no less than those listed in Table 10.
5.12	Info	<b>Wiring space and wire-bending space</b>
		Wiring space and wire-bending space for field-installed conductors shall be determined on the basis of the following assumptions:
5.12.2		<u>a) Wiring space and wire-bending space for field-installed conductors shall be determined on the basis of the maximum conductor for which the meter-mounting device will be marked.</u> b) Where it is intended that a meter-mounting device may be connected by a single conductor or by two or more conductors in parallel, wiring and wire-bending spaces shall be provided for the arrangement requiring the largest space.
5.14	Info	<b>Kits</b>
		<b><i>New clause added;</i></b>
		<b>Wiring terminal kits</b>
5.14.2		If a wiring kit is provided for line terminals, feed-through terminals, neutral terminals, neutral assemblies, tap-off connectors, ground terminals, ground terminal assemblies, flat-rate water heater conductors, or load-side conductors, it shall be designed such that a) each kit can be installed without disassembly of factory-assembled parts (other than those parts normally disassembled for installation and wiring and other than main terminal wire connectors) and without the use of a special tool unless such a tool and instructions for its use are furnished with each kit; b) the design of the meter-mounting device and the kit is such that with the kit installed, spacings will be maintained; c) the kit is marked in accordance with Clause 6.2c); and d) unless proper installation of a kit is clearly evident, installation instructions shall be provided, either as part of the kit or as part of the meter-mounting device.



CLAUSE	VERDICT	COMMENT
5.15 – 5.21		<p><b><i>New sections added;</i></b></p> <p><b>5.15 Grounding and bonding</b> <b>5.16 Neutral assemblies (combination meter-mounting devices)</b> <b>5.17 Self-contained meter-mounting devices with a bypass mechanism</b> <b>5.18 Meter jaw safety guard</b> <b>5.19 Circuit breakers</b> <b>5.20 Short-circuit current rating</b> <b>5.21 Combination meter-mounting device rating</b></p> <p>See standard for details.</p>
6		<p><b><i>New section added;</i></b></p> <p><b>Marking</b></p> <p>Meter-mounting devices, unless they form part of a device which is otherwise suitably marked in accordance with the requirements of this Standard, shall be marked in a permanent* manner and, except as noted in Items a) to k), in a place where the details can be readily seen after installation (before the meter is in place), with the following items:</p> <p>See standard for details.</p>
7	Info	<b>Tests</b>
7.1		<p><b><i>New clause added;</i></b></p> <p><b>General</b></p> <p>Meter-mounting devices subjected to the temperature test in Clause 7.2 shall also be subjected to contact endurance and temperature (repeated) tests as specified in Clauses 7.3 and 7.4.</p> <p>Note: For combination meter-mounting devices, consideration is given for those meter-mounting devices that have been previously evaluated under this Standard that the test requirements in Clauses 7.3 and 7.4 may not be required to be completed.</p>
7.2	Info	<b>Temperature</b>
7.2.1	Info	<b>Test conditions</b>
7.2.1.7		<p><b><i>New section added;</i></b></p> <p>For self-contained meter-mounting devices with bypass, the temperature test shall be conducted</p> <p>a) in meter mode with the meter in place; and b) in bypass mode with the meter removed and the meter opening covered.</p>



CLAUSE	VERDICT	COMMENT
7.2.2	Info	<b>Test loads</b>
		The test current for meter-mounting devices shall be
7.2.2.2		a) 120% of the marked current for single-position meter-mounting devices; b) 120% of the total current for multiple-position meter-mounting devices, with the meter-mounting device farthest from the line terminal carrying 120% of its marked current and the remainder distributed equally between the remaining sockets; and <u>c) 100% of the marked current for load circuit assemblies of transformer-rated meter-mounting devices.</u>
		<b><i>New clause added;</i></b>
7.2.2.7		The test current for single-position combination meter-mounting devices shall be a) 80% of the current rating of a circuit breaker; or b) 100% of the current rating of a circuit breaker marked as suitable for continuous operation at 100% of its ampere rating.
		<b><i>New clause added;</i></b>
		The test current for multiple-position combination meter-mounting devices shall be 120% of the total current rating of the multiple-position combination meter-mounting devices separated as follows:
7.2.2.8		a) the combination meter-mounted device located farthest from the line terminal shall be loaded with i) 80% of the current rating of the circuit breaker; or ii) 100% of the current rating of a circuit breaker marked as suitable for continuous operation at 100% of its ampere rating; and b) the remainder current shall be distributed equally between the remaining position without exceeding the maximum continuous operation current of the circuit breaker.
7.2.3	Info	<b>Test requirements</b>
		Current-carrying parts shall not show a temperature rise, as measured by thermocouples, of more than 55 °C <u>the values listed in</u>
7.2.3.1		<u>a) Table 7 for the meter compartment;</u> <u>b) Table 8 for the circuit breaker compartment; and</u> <u>c) Table 9 for the load-side splitter compartment when carrying the test currents specified in Clauses 7.2.2.2 to 7.2.2.8, as applicable, until constant temperatures are attained.</u>
		<b><i>New clause added;</i></b>
7.2.3.3		Temperatures shall be considered to be constant when three successive readings taken at 15 min intervals indicate a change of no more than 0.5 °C.



CLAUSE	VERDICT	COMMENT
7.3	Info	<b>Contact endurance</b>
		For self-contained meter-mounting devices with bypass mechanism, the following sequence shall be applied to the tests defined in Clause 7.3.1:
7.3.2		a) Activate the bypass mode. b) Withdraw the meter. c) Insert the meter. d) Activate the meter mode.
		<b><i>New clause added;</i></b>
7.3.3		As a result of testing in Clause 7.3, no component of the mechanism support of the current-carrying part shall crack or break.
7.4	Info	<b>Temperature (repeated)</b>
		<b><i>New clause added;</i></b>
7.4.2		For meter-mounting devices with bypass, the test shall be repeated only in meter mode.  Note: See Annex A for self-contained meter-mounting devices with bypass.
		<b><i>New clause added;</i></b>
7.4.3		For combination meter-mounting devices (with or without a splitter compartment), the test shall be repeated on the meter portion only.  Note: See Annex C for combination meter-mounting devices.
7.5	Info	<b>Weather and humidity</b>
7.5.4		Meter-mounting devices shall be exposed to a moist atmosphere at a relative humidity of 100% at a temperature of $32 \pm 3$ °C for a period of 72 h. <u>Water shall not accumulate in the meter-mounting device up to the level of the lowest bare live part.</u>
7.10	Info	<b>Mechanical strength</b>
		<b><i>New clause added;</i></b>
7.10.3		The mechanical strength of the bypass mechanism shall be verified by applying 150% of the manufacturer's declared maximum force while transferring from meter mode to bypass mode and vice versa. No current-carrying part shall crack or break, and current-carrying performance shall not be impacted. Spacing between live parts shall remain in compliance with the requirements.



CLAUSE	VERDICT	COMMENT
		<i>New section added;</i>
		<b>Short-circuit current rating</b>
7.14		Except as permitted by Clause 7.14.1.2, a combination meter-mounting device shall be tested as specified in Clauses 7.14.2 and 7.14.3, in that order.
		See standard for details.

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