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Device type and subtype tables

Audience and use

This document intended for use by recognized technicians employed by authorized service providers and Measurement Canada inspectors who complete device examination certificates under the authority of the *Weights and Measures Act* and the *Weights and Measures Regulations*.

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Gravimetric devices

Type 1: Trade weights

Subtype	Inclusions
10	Trade weights. • Not applicable to authorized service providers.

Type 2: Computing scales

Subtype	Inclusions	Exclusions
10 Non-automatic counter	Non-automatic retail computing counter scales.	-
20 Non-automatic POS	Non-automatic point of sale (POS) systems.	-
30 Non-automatic prepack	Non-automatic scales designed exclusively for prepackaging.	Scales used for direct sales or packing devices exempt by subsection 4(2) of the <i>Weights and Measures Regulations</i> .
31 Automatic prepack	Automatic prepack scales.	Packing devices exempt by subsection 4(2) of the <i>Weights and Measures Regulations</i> .

Type 3: Platform scales

Subtype	Inclusions	Exclusions
10 Non-automatic single-deck	Dormant, axle, bagging, postal, etc.	-
11 Automatic single-deck dynamic weighing	Automatic platforms weighing dynamically.	Conveyor belt scales.
12 Automatic single-deck static weighing	Automatic platforms weighing statically.	Conveyor belt scales.
13 Non-automatic class II	Non-automatic platform scales meeting Accuracy Class II .	-
20 Non-automatic multi-deck	Multi-deck platform scales.	-

Type 4: Hopper scales

Subtype	Inclusions
10 Non-automatic	Hopper and tank scales.
11 Automatic	Bulk weighing systems (receiving and delivery systems).

Type 5: Crane scales

Subtype	Inclusions
10 Non-automatic	Crane scales.

Type 6: Conveyor belt scales

Subtype	Inclusions	Exclusions
11 Automatic	Conveyor belt scales. • Not applicable to authorized service providers.	Platforms with conveyors atop.

Type 7: Overhead rail scales

Subtype	Inclusions
10 Non-automatic	Non-automatic overhead rail type scales.
11 Automatic	Automatic overhead rail type scales.

Type 8: On-board scales

Subtype	Inclusions
10 Non-automatic forklift and lift truck	Static weighing (non-integrating) forklift and lift truck weighing systems.
12 Non-automatic tank and hopper	Static weighing (non-integrating) tank and hopper scales.
14 Non-automatic platform and bunk	Static weighing (non-integrating) platform and bunk scales.
20 Non-automatic waste weigher	Scales mounted on waste disposal and recycling vehicles (integrated dynamic weighing). • Not applicable to authorized service providers.
22 Non-automatic front-end loader	Scales mounted on front-end loader systems (integrated dynamic weighing). • Not applicable to authorized service providers.

Type 9: Vehicle scales

Subtype	Inclusions	Exclusions
10 Non-automatic attended single-deck	Attended non-automatic single-deck vehicle scales.	Axle scales.
20 Non-automatic attended multi-deck	Attended non-automatic multi-deck vehicle scales.	-
30 Non-automatic unattended single-deck	Unattended non-automatic single-deck vehicle scales.	Axle scales.

Subtype	Inclusions	Exclusions
40 Non-automatic unattended multi-deck	Unattended non-automatic multi-deck vehicle scales.	-

Type 10: Railway scales

Subtype	Inclusions
10 Non-automatic single-deck	Non-automatic railway and combination scales.
11 Automatic single-deck	Automatic railway scales. • Not applicable to authorized service providers.
20 Non-automatic multi-deck	Non-automatic multi-deck railway scales.

Volumetric devices

Abbreviations

ATC = Automatic temperature compensator

APC = Automatic pressure compensator

LPM = Litres per minute

Type 50: Dispensers

Subtype	Inclusions	Exclusions
10 Uncompensated	Uncompensated automotive type dispensers (≤ 90 LPM).	Blending dispensers.
11 Temperature compensated	Automotive type dispensers incorporating an ATC (≤ 90 LPM).	Blending dispensers.
20 Blending uncompensated	Uncompensated dispensers with blending capabilities (≤ 90 LPM).	-
21 Blending temperature compensated	Dispensers with blending capabilities and incorporating an ATC (≤ 90 LPM).	-

Type 51: High-speed dispensers

Subtype	Inclusions
10 Uncompensated	Uncompensated high-speed dispensers (> 90 LPM).
11 Temperature compensated	High-speed dispensers incorporating an ATC (> 90 LPM).

Type 52: Bulk meters

Subtype	Inclusions	Exclusions
10 Uncompensated	Uncompensated bulk meters, including portable measuring systems (e.g. skids, transloaders and refuelling carts).	Vehicle-mounted meters.
12 Temperature compensated	Bulk meters including portable measuring systems (e.g. skids, transloaders and refuelling carts), which incorporate ATC.	Vehicle-mounted meters.
13 Pressure compensated	Bulk meters incorporating ATC and APC.	Vehicle-mounted meters.
20 Vehicle mounted uncompensated	Uncompensated vehicle-mounted bulk meters.	Gravity meters and Coriolis flow meters.
22 Vehicle mounted temperature compensated	Vehicle-mounted bulk meters incorporating an ATC.	Gravity meters and Coriolis flow meters.
23 Vehicle mounted pressure compensated	Vehicle-mounted bulk meters incorporating ATC and APC.	Gravity meters and Coriolis flow meters.

Type 53: Coriolis flow meters

Subtype	Inclusions	Exclusions
10 Uncompensated	Uncompensated Coriolis flow meters indicating in units of mass or volume.	Coriolis flow meters in dispensers.
12 Temperature compensated	Coriolis flow meters indicating in units of mass or volume and incorporating ATC.	Coriolis flow meters in dispensers.
13 Pressure compensated	Coriolis flow meters indicating in units of mass or volume and incorporating ATC and APC.	Coriolis flow meters in dispensers.

Type 54: Slow-flow meters

Subtype	Inclusions
10 Uncompensated	Uncompensated slow-flow meters.

Type 55: Gravity bulk meters

Subtype	Inclusions	Exclusions
10 Uncompensated	Uncompensated gravity bulk meters.	Vehicle-mounted meters.
11 Temperature compensated	Compensated gravity bulk meters incorporating ATC.	Vehicle-mounted meters.
20 Vehicle-mounted uncompensated	Uncompensated vehicle-mounted gravity bulk meters.	-
22 Vehicle-mounted temperature compensated	Vehicle-mounted gravity bulk meters incorporating ATC.	-

Type 56: Thermal energy meters

Subtype	Inclusions
10 Residential	Residential thermal energy meters.
11 Non-residential	Non-residential thermal energy meters.

General devices

All types and subtypes indicated in this category are available to Measurement Canada inspectors only (not authorized service provider technicians).

Type 90: Gravimetric dynamic measures

Subtype	Inclusions	Exclusions
10 Length measuring devices	Single dimension length measuring devices.	Static linear measures.
20 Length measuring devices - multiple dimension	Static and dynamic multiple dimension measuring devices.	-
30 Area measuring devices	Area measuring devices.	-
40 Volume (solid) measuring devices, or timber dimension measuring devices	Solid volume measuring devices and timber dimension measuring devices.	Multiple dimension measuring devices.

Type 91: Linear static measures

Subtype	Inclusions
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Subtype	Inclusions
10 Linear	Static linear measures, including tapes, rulers, etc.

Type 92: Volumetric static measures

Subtype	Inclusions
10 Volumetric	Static volumetric measures.

Type 98: Others - gravimetric

Subtype	Inclusions
10 Gravimetric	Gravimetric devices not otherwise accounted for.

Type 99: Others - volumetric

Subtype	Inclusions
10 Volumetric	Volumetric devices not otherwise accounted for (including vehicle tanks).

Local standards

Type S1: Gravimetric

Subtype	Inclusions
10 Measurement Canada	Departmental gravimetric standards.
20 Industry	Industry gravimetric standards.
30 OGD	Other government department gravimetric standards.

Type S2: Volumetric

Subtype	Inclusions
10 Measurement Canada	Departmental volumetric standards.
20 Industry	Industry volumetric standards.
30 OGD	Other government department volumetric standards.

Type S3: Temperature

Subtype		Inclusions
10	Measurement Canada	Departmental temperature standards.
20	Industry	Industry temperature standards.
30	OGD	Other government department temperature standards.

Type S4: Density

Subtype		Inclusions
10	Measurement Canada	Departmental density standards.
20	Industry	Industry density standards.
30	OGD	Other government department density standards.

Type S5: Linear

Subtype		Inclusions
10	Measurement Canada	Departmental linear standards.
20	Industry	Industry linear standards.
30	OGD	Other government department linear standards.

Type S6: Time

Subtype		Inclusions
10	Measurement Canada	Departmental time standards.
20	Industry	Industry time standards.
30	OGD	Other government department time standards.

Revisions

Effective date	Revisions

Effective date	Revisions
September 15, 2020	• Type 8: updated the inclusions for subtypes 20 and 22. • Type 50, subtypes 20 and 21: modified the subtype name. • Type 51: changed the name to “high-speed dispensers”. • Type 52: ◦ changed the name from “rack meters” to “bulk meters”; ◦ updated the title of subtypes 10, 12 and 13; ◦ replaced the term “truck” with the term “vehicle”; ◦ edited the inclusions; ◦ added exclusions to 52-20, 52-22 and 52-23. • Type 53: updated inclusions and added exclusions. • Type 55: ◦ added exclusions to subtypes 10 and 11; ◦ added subtypes 20 and 22. • Added type 56, and subtypes 10 and 11.
March 15, 2018	• Updated departmental name and corporate signature. • Type 53: ◦ changed name to “Coriolis flow meters”; ◦ changed subtype 11 to 12; ◦ added subtype 13.