



Device type and subtype tables

Version 1.2



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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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> 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). <ul style="list-style-type: none"> • Not applicable to authorized service providers. |
| 22 Non-automatic front-end loader | Scales mounted on front-end loader systems (integrated dynamic weighing). <ul style="list-style-type: none"> • 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. |
| 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. <ul style="list-style-type: none"> • 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 |
|-----------|---|
| 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 (OGD) 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

| Version | Effective date | Revisions |
|---------|--------------------|---|
| 1.2 | September 15, 2020 | <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ added exclusions to subtypes 10 and 11; ○ added subtypes 20 and 22. • Added type 56, and subtypes 10 and 11. |
| 1.1 | March 15, 2018 | <ul style="list-style-type: none"> • Updated departmental name and corporate signature. • Type 53: <ul style="list-style-type: none"> ○ changed name to “Coriolis flow meters”; ○ changed subtype 11 to 12; ○ added subtype 13. |