



Certificate

for Radiation Device

Certificate Number R-094-0002-0-2026	Date of Issue October 20, 2011	Date of Expiry September 30, 2026
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The radiation device identified below is certified by the Canadian Nuclear Safety Commission pursuant to paragraph 21(1)(h) of the *Nuclear Safety and Control Act* and section 12 of the *Nuclear Substances and Radiation Devices Regulations*.

Manufacturer: Endress+Hauser GmbH+Co. KG

Make and Model: Endress+Hauser FQG60-Model 3; FQG60-Model 4; and FQG60-Model 5

Device Type: FIXED GAUGE

Description: Reference CNSC Application No. 43965.

FQG60 source container consists of a sheet metal body, cylindrical housing, shutter and the source insert assembly. The cylindrical housing consists of a tube and a machined cover.

The source insert assembly consists of source insert, protection cap and an O-ring. The cap provides a chamber specifically shaped for the type of source capsule that is used in the device. The chamber is sealed by the O-ring. The source insert possesses a spring loaded ball plunger which fixes the source capsule in assembled position. At its upper end the source insert has a thread for assembly into the cover of the housing. Between the source insert and the cover a flat gasket is built in to seal the inner space of the lead shielding against the environment.

The shutter is a bolted construction consisting of a coated lead plate, 3 mm sheet metal shutter frame, bow type handles, threaded distance pieces and cap nuts. The device has three variants which provide radiant angles of the housing at 30°, 40° and 90°.

The device weighs approximately 18 kg and is approximately: 349 mm long x W: 232 mm wide and a height varying between 169 mm to 197 mm depending on the model.

Refer to the Summary Evaluation Sheet (CNSC Document No. 3783722) for the authorized sealed sources and for additional information.

The radiation device may contain any of the following nuclear substances in a quantity not exceeding the corresponding quantity indicated:

Nuclear Substance	Maximum Quantity
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Cesium 137

1375 MBq

Designated Officer pursuant to paragraph 37(2)(a) of the *Nuclear Safety and Control Act*