

# LM200 Laser level transmitter

Measurement made easy

Long range  
level products



## Features

- Range up to 190 m (620 ft.) for level applications
- Range up to 400 m (1312 ft. ) for positioning
- Resolution 10 mm (0.39 po)
- Operating temperature -40°C to +60°C (-40 °F to 140 °F)

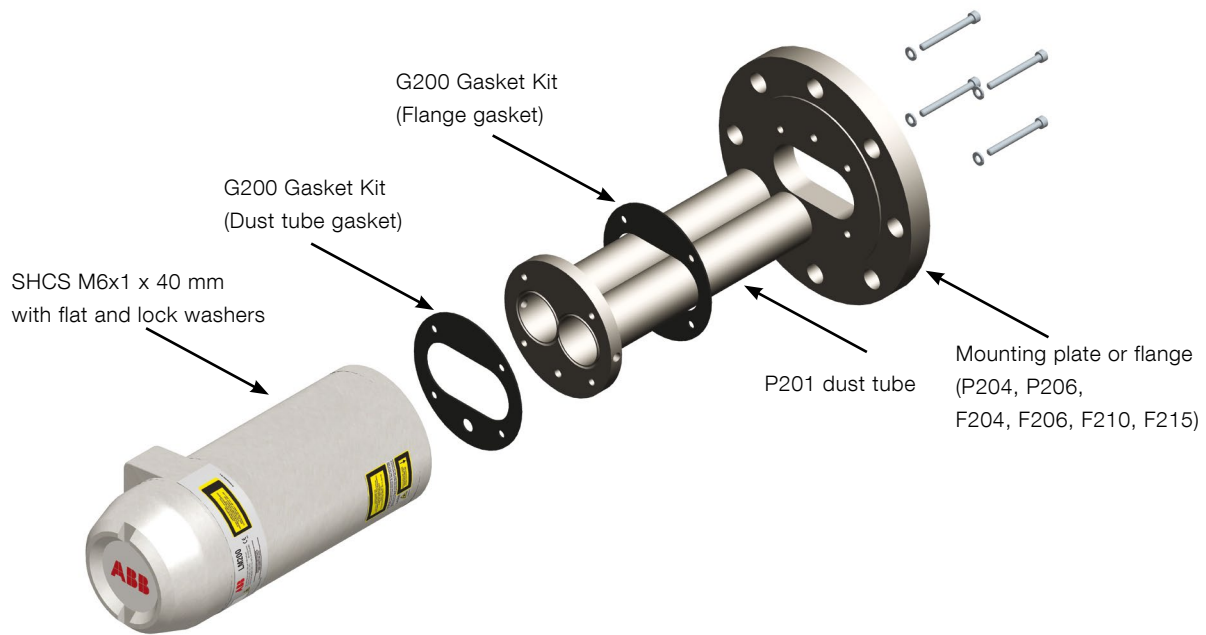
## For more information

Complete specifications on the LM200 laser level transmitter are available for free download from [www.abb.com/level](http://www.abb.com/level) (see links and reference numbers below) or by scanning this code:



Search for or click on:

Operating Instruction LM200	<a href="#">OI/LM200-EN</a>
Data Sheet LM200	<a href="#">DS/LM200-EN</a>
LM200 Safety Specifications	<a href="#">SM_LM200-EN-FR-DE</a>



Typical LM200 installation with dust tube (P201) and flange

## Standard precautions

Read LM200 user manual carefully before working with the product. For personal and system safety and for optimum performance, make sure you thoroughly understand the contents before installing, using or maintaining this instrument.

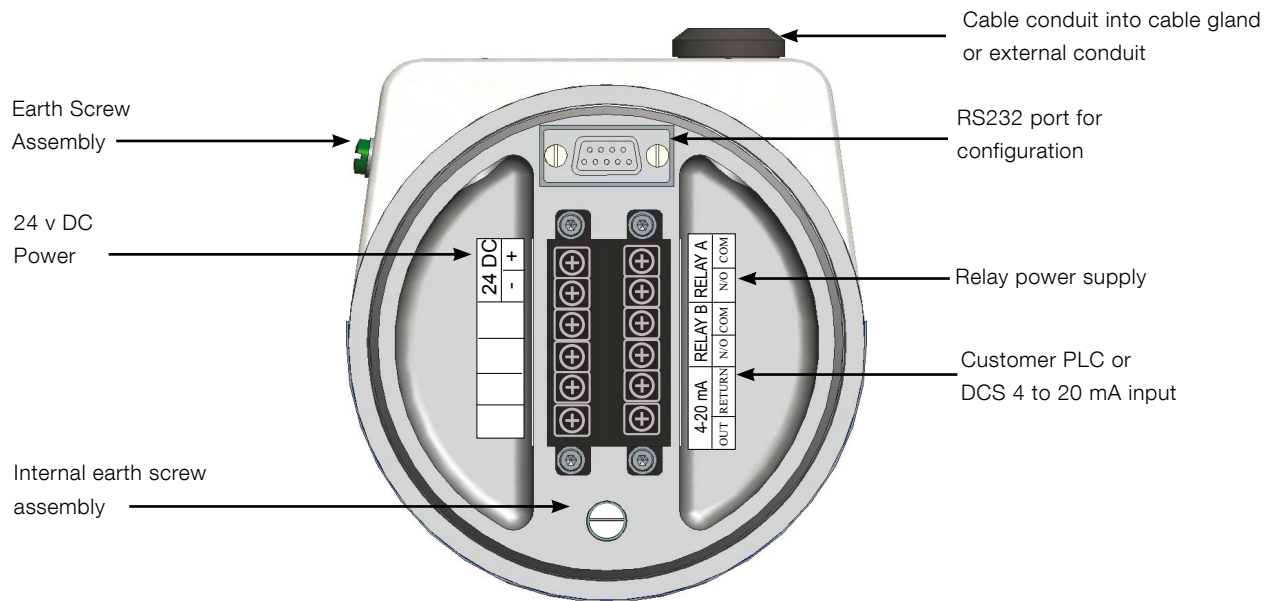


All servicing of the equipment is to be performed at factory by qualified service personnel only.



No user/operator adjustments inside the LM200 level transmitter are necessary or recommended by the manufacturer.

- Do not drop the instrument or expose the internals to water and dirt
- Do not open the terminal compartment in a possibly explosive atmosphere
- Do not install or connect with the power on
- Use appropriate insulated lugs or ferrules with stainless washers for connections
- Keep the terminal compartment seal clean and lightly lubricated with Vaseline®
- Ensure that the terminal compartment lid, cable gland or conduit are tight after installation
- Only use glands that have been suitably certified by a notified body
- Do not install conduit so that it can drain into the LM200 terminal compartment
- Remove dirt from the lenses with a clean, damp cloth only
- Do not point the instrument at the sun.
- Aim perpendicular to liquids and avoid aiming into the vessel fill path or at the sun



**Typical LM200 24V DC electrical installation**

## Laser safety

The LM200 level transmitter uses a class 1M laser during normal operation. However, at installation and after a restart a pointing laser is activated for 2 minutes to allow positioning of the LM200 level transmitter. During these 2 minutes the LM200 level transmitter is a class 3R laser product. It is possible to configure the LM200 to completely turn off the laser pointer. When this is done the LM200 will be a class 1M device all the time.

During standard operation:



Class 1M laser (905nm) is safe for all conditions of use except when passed through magnifying optics such as microscopes and telescopes. Do not view directly with optical instruments (binoculars or telescopes).

In the first 2 minutes after start-up:



Class 3R laser radiations (635 nm, 2 mW output power) are present at the bottom side of the instrument, i.e. originate from the pointing laser. Do not look in the laser beam.

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