

8. Level measurement of molten glass

A platinum electrode enables consecutive measurement of molten glass with a high degree of accuracy. The temperature of molten glass reaches almost 1000°C and radioactivity has been used to measure it. However, it is difficult to ensure the safety using this method.

The platinum electrode level switch was created.

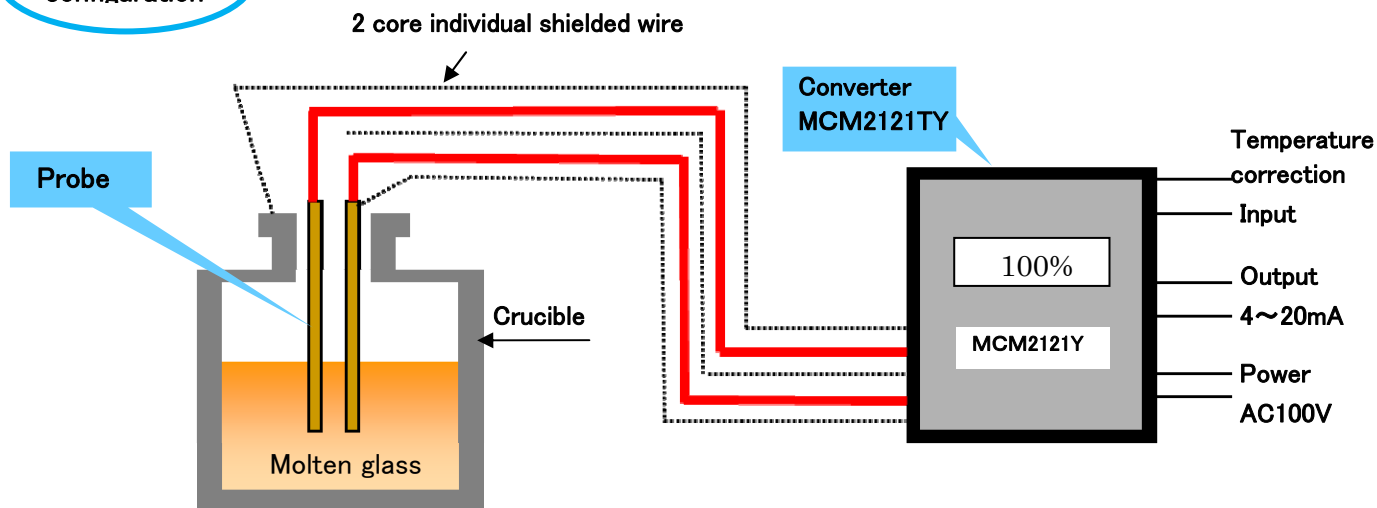
Measuring principles

Suspend two platinum electrodes within molten glass.

Measured electric property between two electrodes will be proportional to the level.

That is Mystar MCM21221.

Equipment configuration



How to use

Probe

Probes are manufactured to fit the fire fit. Two platinum probes must be electrically isolated from the container and also the gap between probes must be isolated and parallel. In the terminal position, make sure that it is close to the normal temperature as much as possible. This will make easier to select from following cables.

Employed cable

Use a 5 core individual shield shorter than 30 m, or when the terminal position is high, use the cable manufactured for high-temperature.

Converter

By using Mystar MCM2121 which is designed as a level switch for molten glass, measurement with a high degree of accuracy is enabled even in noisy conditions. It can automatically rectify the temperature property of glass, and high-precision measurement within 1% from the measurement range can be expected.