

9. Level measurement of molten metal

The level of melting can be consecutively measured on the line

Measuring principles

Set shielded electrodes on molten metal away from each other.

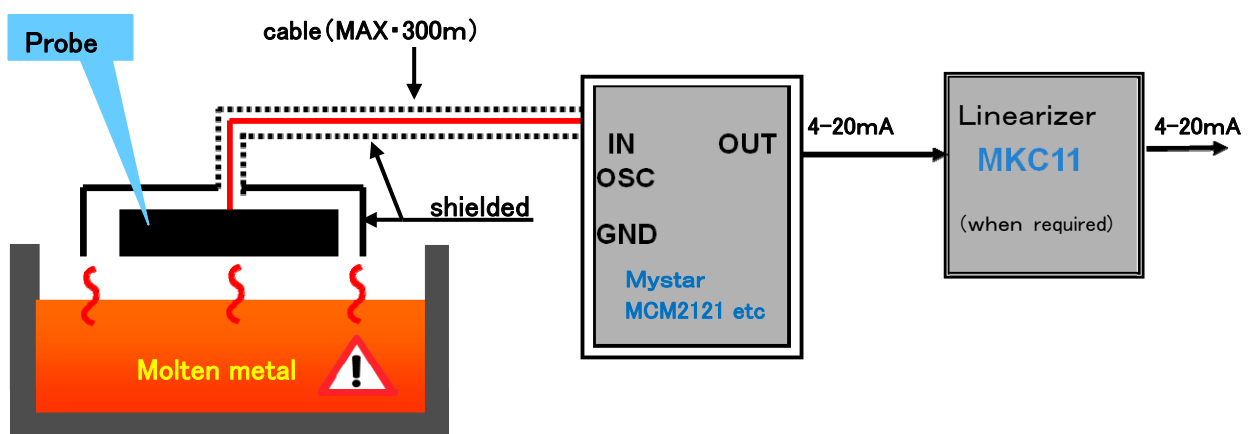
Measure the electric property of those electrodes, the molten metal and the air.

That indicates distance between those electrodes and the molten metal.

Mystar series does not require an electronic circuit on its electrode head and can be installed in a place away within 300 m. This enables a measurement without influence of a cable's capacitance.

The distance to molten metal can be measured even when the probe head is exposed at high-temperature. That is the Mystar MCM2000/MYM3100 series.

Equipment configuration



How to use

Probe

A linearizer will be designed with special materials, heat expansion, etc. that can tolerate at high-temperature.

Employed cable

Uses 300 meters of 2 core individual shield. Or, uses a cable manufactured for high-temperature when the terminal position is high.

Converter

Uses Mystar MCM2121/MYM3110 which are developed as All Purpose Electrode-Type Level Switches. Also, Linearizer MKC11 is required depending on the measuring distance.