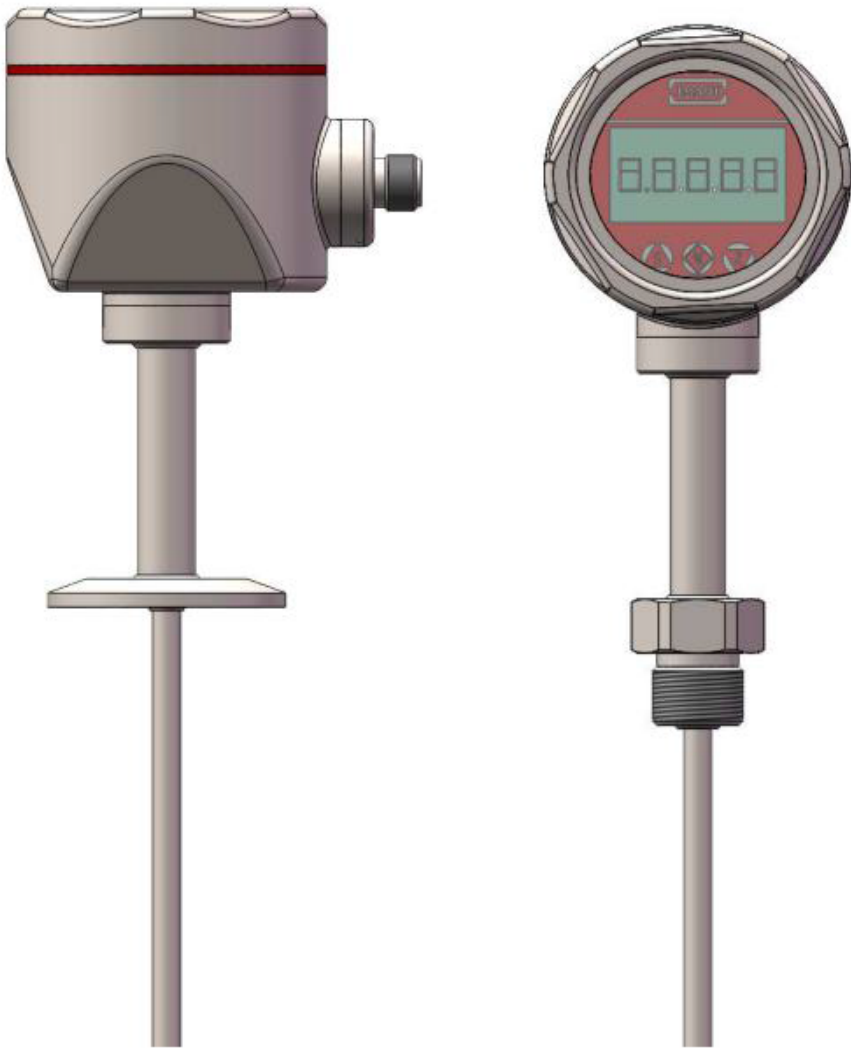


Product introduction

Description



LG200 integrated temperature transmitter adopts ASIC&SMT signal transmitting module, optional built-in backlight and button operation LCD display module. The integrated transient voltage terminal satisfy 4 grade standard (difference-mode voltage 2000V, common-mode voltage 4000V), suitable for bad surge voltage occasions. LG200 integrated temperature transmitter provides a flexible and reliable solution for any temperature measurement applications.

Horizontal installation with tri-clamp

Vertical installation with thread

Main parameters

Measuring range	-50 - 400°C
Output signal	4-20mA
Reference accuracy	±0.5% URL

Field of application

Temperature measurement

Measuring medium

The fluid which compatible with wetted parts

Technical Specifications

Measuring range and limit

-50-400°C, min measuring range 100°C

The unit of the measuring range above can be converted into °F or K. Provide other measuring range according to requirements. Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, minimum measuring range \leq URV - LRV \leq maximum measuring range

Standard specifications and reference conditions

Test standard: GB/T30121 / IEC60751; Zero based calibration span, 4-20mA analog output

Performance specifications

The overall performance including but not limited to [reference accuracy], [environment temperature effects] and other comprehensive error

Stability: superior to $\pm 0.05\%$ URL or $0.1^\circ\text{C}/\text{year}$, whichever is greater @ under the checking condition

Typical accuracy: $\pm 0.5\%$ URL

Reference accuracy

Including linearity, hysteresis and repeatability. calibration temperature: $20^\circ\text{C} \pm 5^\circ\text{C}$

Linear output accuracy	Typical	$\pm 0.5\%$ URL	Full scale

Ambient temperature effects (reference accuracy: 22°C)

$\leq \pm 0.005\%$ URL/ $^\circ\text{C}$, temperature 22°C

Power supply effects

$\leq \pm 0.01\%$ URL/V, power supply 24V (refer to full scale output 20mA)

Loading effects

$\leq \pm 0.02\%$ URL/ 100Ω (refer to full scale output 20mA)

Vibration effects

According to IEC60068-2-6, 4g/2...100HZ

Output signal

Signal	Type	Output
4-20mA	Linearity	Two wire

Insulation resistance

$\geq 20\text{M}\Omega$ @ reference, 100VDC

Power supply

Items	Operating conditions
Power consumption	$\leq 500\text{mW}$ @ 24VDC, 20.8mA

Damping time

Total damping time constant: equal to the sum of damping time of amplifier and sensor capsule

Reaction time: $\leq 10\text{s}$ @ water flow 0.4m/s , outer diameter: 6mm