

Hitachi High-Temperature High-Vacuum Pressure/  
Differential Pressure Transmitter

# EDR/EPR-N7S-SVT

**Featuring a wide applicable range up to 13.3 Pa abs. 310°C.**

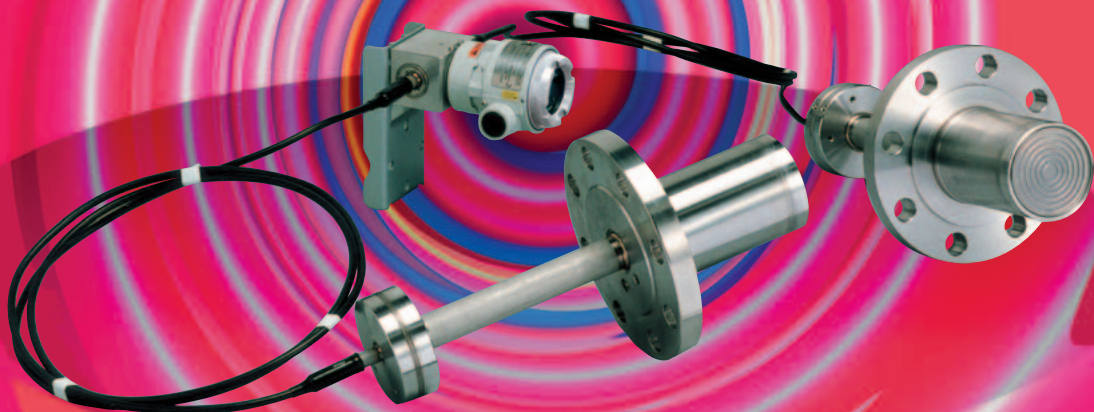
**Specifically designed for pressure level measurement in a high-temperature high-vacuum environment.**

Capable of stable measurement at high temperature under high vacuum, this pressure/differential pressure transmitter can be used in a broad applicable range.

In industrial vacuum processes, there has been an increasing demand for higher temperature and higher vacuum. To meet this demand, it is required to provide pressure/differential pressure transmitters that can work in a high-temperature high-vacuum environment.

EDR/EPR-N7 Series pressure/differential pressure transmitters, each having a diaphragm displacement device, are the latest expression of Hitachi for high-temperature high-vacuum measurement applications.

Equipped with an SG semiconductor pressure sensor, the EDR/EPR-N7 transmitter provides excellent accuracy and reliability in combination with long-time stability. Furthermore, its unique wetted part structure formed by the latest fabrication technique makes it possible to provide a wide applicable range up to 13.3 Pa abs. 310°C. The EDR/EPR-N7 pressure/differential pressure transmitter will find extensive application in vacuum processes in various industrial fields such as chemistry, petrochemistry, fabrics, pharmaceuticals, and electric power.



# An Array of Means Incorporated for Ensuring Stable Measurement at High Temperature under High Vacuum

## High-purity sealed liquid:

Impurities in a sealed liquid are removed by a vacuum distillation technique unique to Hitachi.

## High-temperature dry cleaning:

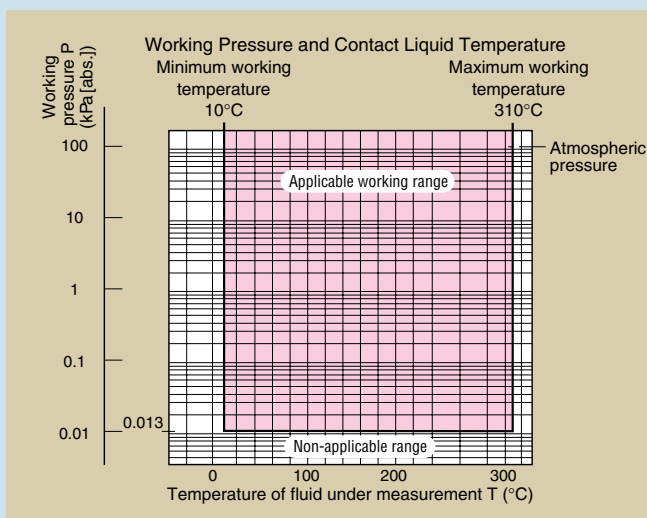
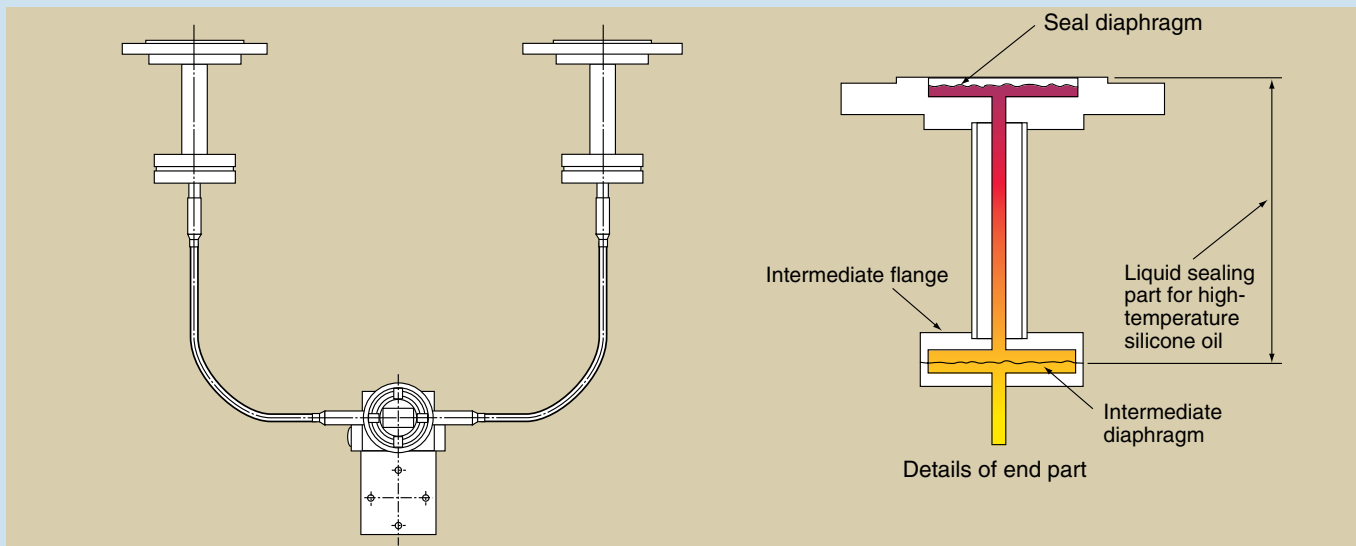
The walls of the sealed liquid chamber are decontaminated in a high-temperature high-vacuum atmosphere.

## High-temperature high-vacuum liquid sealing:

To prevent generation of air bubbles, liquid is sealed at high temperature under high vacuum.

## High-temperature high-vacuum structure:

The wetted part has a structure optimal for high temperature and high vacuum to provide long-time stability.



Transmitter type	Model code	Measurement span	Reference range
High-temperature high-vacuum differential pressure transmitter	EDR-N7S-SVT 40~400 kPa	0.8~80 kPa 40,000	8,000
High-temperature high-vacuum pressure transmitter	EPR-N7S-SVT 1~10 MPa	0.1 kPa~2 MPa G100	G20

Item	Specification
Wetted-part temperature range	10 ~ 310°C
Working pressure range	13.3 Pa [abs.]{0.1 Torr} ~ Maximum working pressure of flange
Materials (standard)	Diaphragm: Hastelloy C Connection parts other than diaphragm: SUS316

● **Main application** Chemical compound(Polyethylene Terephthalate(PET)or Polycarbonate(PC)etc.) manufacturing process under the high-temperature and high-vacuum atmosphere

NOTICE: For proper operation, follow the instruction manual when using the instrument.

Specifications in this catalog are subject to change with or without notice, as Hitachi High-Tech Solutions Corporation continues to develop the latest technologies and products for our customers.

## Hitachi High-Tech Solutions Corporation

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