## Summary

The Foxboro Eckardt 244LVP *LevelStar* is for measurement of level, interface or density of liquids, with high accuray, even under difficult conditions such as high pressure, high temperature and corrosive liquids, even in explosive atmospheres.

## Business Value

The extensive product line gives you solutions for almost every application.

Ruggedised design and high reliability, easy configuration via digital communication and local LCD, long design life and freedom from maintenance reduces the effective costs running your plant and increases its profitability.

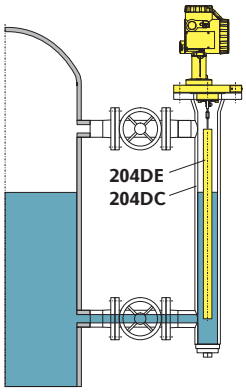
# 244LVP *LevelStar*

HART level transmitter

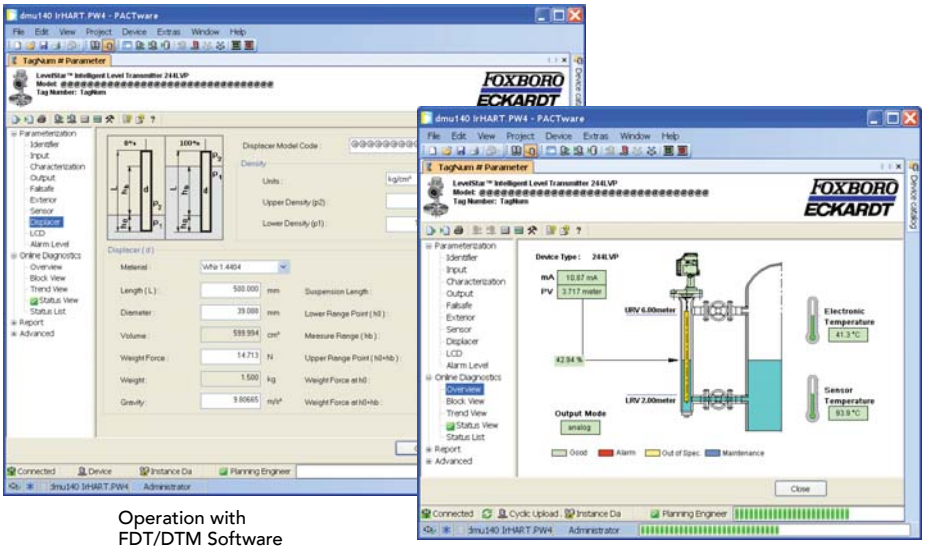
## The cost effective solution.

The 244LVP *LevelStar* is designed to measure continuously level, interface or density for process and tank control. The 244LVP is the proven alternative solution to guided micro wave or radar sensors.
Process wetted parts consist of stainless steel 316L (1.4404) or Hastelloy C for the optimal adaption to the process at the lowest price. It is very rugged, has a long life cycle and requires no maintenance. The process connections are as DN 50 or DN 80 respectively 2" or 3" ANSI Class 300.
The 244LVP *LevelStar* joins the experience of Foxboro Eckardt with most advanced FDT / DTM technology.

Foxboro Eckardt GmbH
Pragstr. 82 · D-70376 Stuttgart · Germany
Phone +49 (0)711 502-0
Telefax +49 (0)711 502-597
http://www.foxboro-eckardt.eu
e-mail to: salessupport@foxboro-eckardt.de




Mounted e.g. at side of vessel, with displacer chamber 204DC and displacer 204DE




Operation with FDT/DTM Software

## In Process

- Nominal widths DN 50 and DN 80 (2 inch, 3 inch)
- Process temperature –50 to +150 °C (–58 to +302 °F)
- Process pressure vacuum to 40 bar / ANSI Class 300
- Level measuring range 0 to 50 mm up to 0 to 3 m / 0 to 2 inch up to 0 to 10 feet
- At given level:
  - Measuring of density
  - Position of interface of two liquids
- Material (process wetted) Stainless Steel 1.4404 or 1.4571
- Accuracy ± 0.2 %
- Sensor with no moving parts
- Reliable interface measurement – also at diffuse interface
- Rel. Humidity up to 100 %, condensation permitted
- Electrical Classification Explosion Proof and Intrinsically Safe acc. to ATEX, FM, ...

## Electronic

- 2-wire transmitter
- Output Signal linear or customized
- Communication HART: Analog 4 to 20 mA
- Power Supply 12 to 42 V DC
- Protection of housing IP 66
- Temperature –40 to +85°C

## Operation

- On the Instrument with push buttons and LCD display for configuration
- Digital with HART Hand Terminal or FDT/DTM Software for calibration and configuration
- LCD display for measured values, status and configuration
- Upper part with LCD turnable to the operator

## Influence in the Process

| | |
|---|---|
| Temperature | ▸ very little influence |
| Pressure | ▸ very little influence |
| Steam, Fog | ▸ no influence |
| Dielectric constant | ▸ no influence |
| Foam | ▸ no influence |
| Vibrations | ▸ minimised due to Smart Smoothing + Damping |
| Motion of Fluid | ▸ very little influence (if necessary use protecting tube or displacer chamber) |
| Diffuse Interface | ▸ no influence |
| Displacer stroke | ▸ Zero (no position alteration at liquid level change) |
| Corrosive Fluids | ▸ no influence (instruments are delivered in resistant materials) |
| Vessel material | ▸ no influence |
| Deposits on vessel | ▸ no influence |
| Deposits on displacer | ▸ very little influence |

Invensys Operations Management • 5601 Granite Parkway III, #1000, Plano, TX 75024 • Tel: (469) 365-6400 • Fax: (469) 365-6401 • www.invensys.com



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