





Pressure and temperature transmitter with intuitive operation in compact design

Food Pharmaceuticals Biotechnology

Chemicals Process industry

# **V-LINE PRESSURE AND TEMPERATURE**

### COMPACT DESIGN. HIGH ACCURACY. FOR PROCESS INDUSTRY

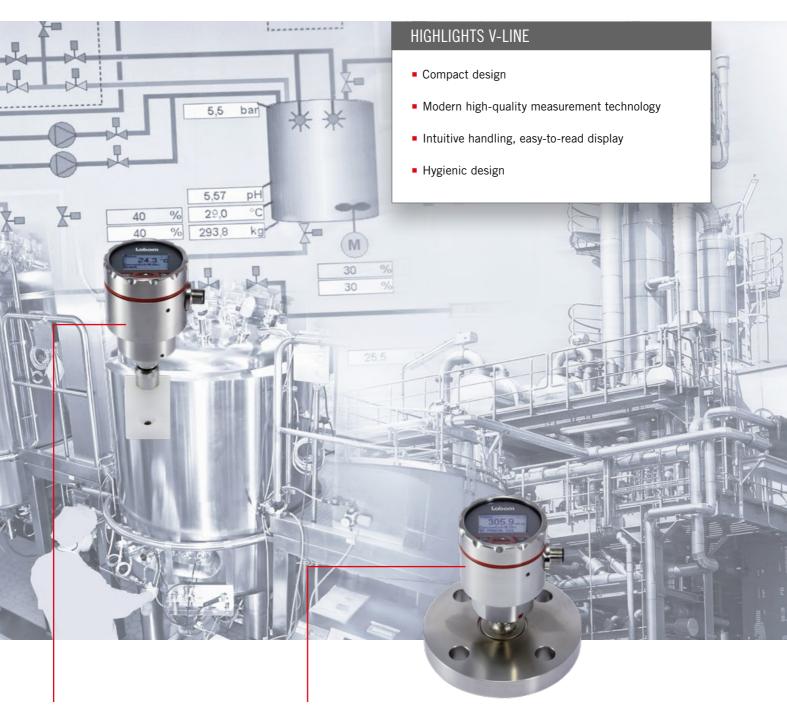


Temperature transmitter
MiniTherm GV4 with
hygienic thermowell
system HIT
Food/Pharmaceuticals

Pressure transmitter
PASCAL CV4 with
threaded connection
General process industry

# TRANSMITTER

### APPLICATIONS.



Temperature transmitter Clamp-on GV4 with clamping element for surface measurement Biotechnology Pressure transmitter
PASCAL CV4 with
flange-type diaphragm
seal
Chemicals/

**General machinery** 





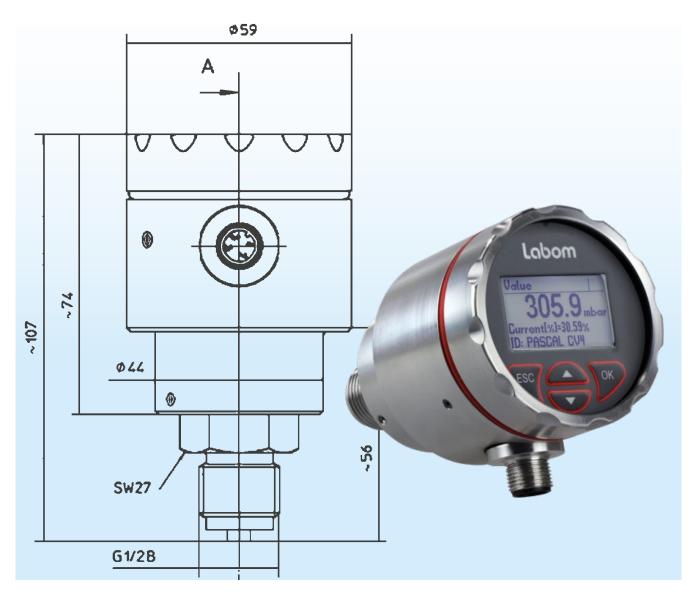
# THE V-LINE **PROPERTIES**





Title	<b>CV4 - Compact pressure transmitter</b> with intuitive operation in hygienic design	<b>GV4 - Compact temperature transmitter</b> with intuitive operation in hygienic design
Measured variable	Pressure	Temperature
Constructional design	Compact, small design	Compact, small design
Position process connection	Back	Bottom or back
Process connection	Threaded connection or various process connections of LABOM diaphragm seal portfolio	For installation in a separate ther- mowell with various options or in clamp-on technology for surface measurement
Industry focus	Particularly suitable for hygienic applications or applications requiring compact design with high accuracy	Particularly suitable for hygienic applications or applications requiring compact design with high accuracy
Accuracy	Up to ≤ 0,1 %	≤ 0,1 %
Appearance	High quality stainless steel design	High quality stainless steel design
Display	Large graphic display with backlight (configurable, easy to read)	Large graphic display with backlight (configurable, easy to read)
Nominal range/ temperature range	250 mbar 400 bar rel.; 1 16 bar abs.	Temperature range: -50200°C (Clamp-on: -50150°C)
Output signal	420 mA with HART® protocol	420 mA with HART® protocol
Measuring system	Piezoresistive sensor or thin film	Measuring resistor Pt100, class A

## COMPACT ORIGINAL



Original size picture

### **CONSTRUCTIONAL DESIGN**

- Compact case of stainless steel in hygienic design according to recommendations from EHEDG and 3A
- Case continuously rotatable by ± 170°
- Degree of protection IP 65/67 (IP69K as an option)
- Special moisture protection due to small internal volume, completely encapsulated
- Electrical connection circular connector M12 or cable glands

- Material case and front cover:
  - Process connection back: Stainless steel mat.-no. 1.4305 (303) Option: stainless steel mat.-no. 1.4404 (316L)
- Process connection bottom (temp. devices only): Stainless steel mat.-no. 1.4301 (304) Option: stainless steel mat.-no. 1.4404 (316L)

## HIGH QUALITY METROLOGY - INTUITIVE HA

### **QUICK-SETUP**

The V-line devices combine a very compact construction with the largest possible display. The intuitive 4-button operation assists the user with a dialog window that optionally can be set to English or German language on a high-resolution and well-illuminated dot-matrix display. A special quick setup feature simplifies speedy installation and configuration of the devices.

#### FREELY CONFIGURABLE DISPLAY MODES

#### **Display modes**

Four/three/two values / large display

#### Main value

Pressure / temperature

Current in %

Current in mA

#### **Further values**

Pressure / temperature

Current in %

Current in mA

Device ID

Bar graph

HART tag

HART descriptor



#### **Examples of display modes**



Two values

Value 305.9 mbar I=30.59% Tsen=20.1°C ID: PASCAL CV4

Four values

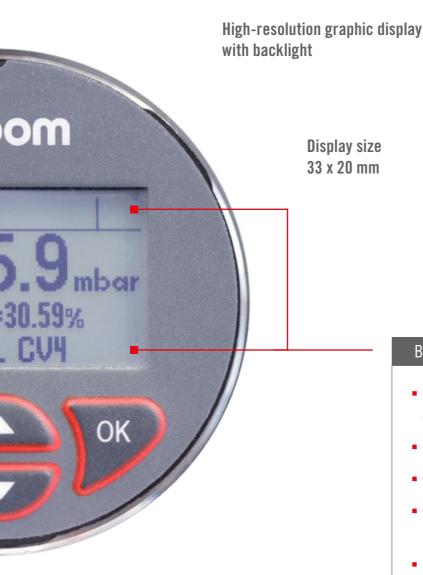
20.7 °C I=13.83% I=6.212mA ID:GV4 MINITHERM

Four values



Big display

### **NDLING**



**Enlarged picture** 

#### BASICS OF THE OPERATING CONCEPT

- Display module with dot-matrix display with 80 x 128 px and 4-button operation
- Intuitive operation due to 4-button concept
- Consistent operating concept
- Output signal 4...20 mA mit HART® protocol
- Fast response due to high processor performance
- Display removable under voltage
- Digital communication via PDM, FDT/DTM, 375/475 Field Communicator
- Output functions: linear, invers, square root, table function
- Comprehensive simulation and diagnostic functions
- Quick access to device data

# Labom

### **DESIGNS V-LINE** - EXAMPLES

#### **Pressure transmitter**





**CV4110** with inline diaphragm seal, hygienic



**GV4730** for installation in a separate thermowell



**CV4110** with diaphragm seal clamp connection, hygienic



**GV4610** for pipe surface measurement



**CV4100** with threaded connection



**GV4730** with clamp thermowell connection



**CV4110** with diaphragm seal flange-type, sturdy



**GV4730** with hygienic invasive thermowell system HIT

# **CONSULTATION MEETING** DESIRED?

Let's talk about your measurement tasks!

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