



THE V-LINE

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.



HIGHLIGHTS V-LINE

- Compact design
- Modern high-quality measurement technology
- Intuitive handling, easy-to-read display
- Hygienic design

Temperature transmitter
Clamp-on GV4 with
clamping element for
surface measurement
Biotechnology

Pressure transmitter
PASCAL CV4 with
flange-type diaphragm
seal
Chemicals /
General machinery

HART
COMMUNICATION PROTOCOL

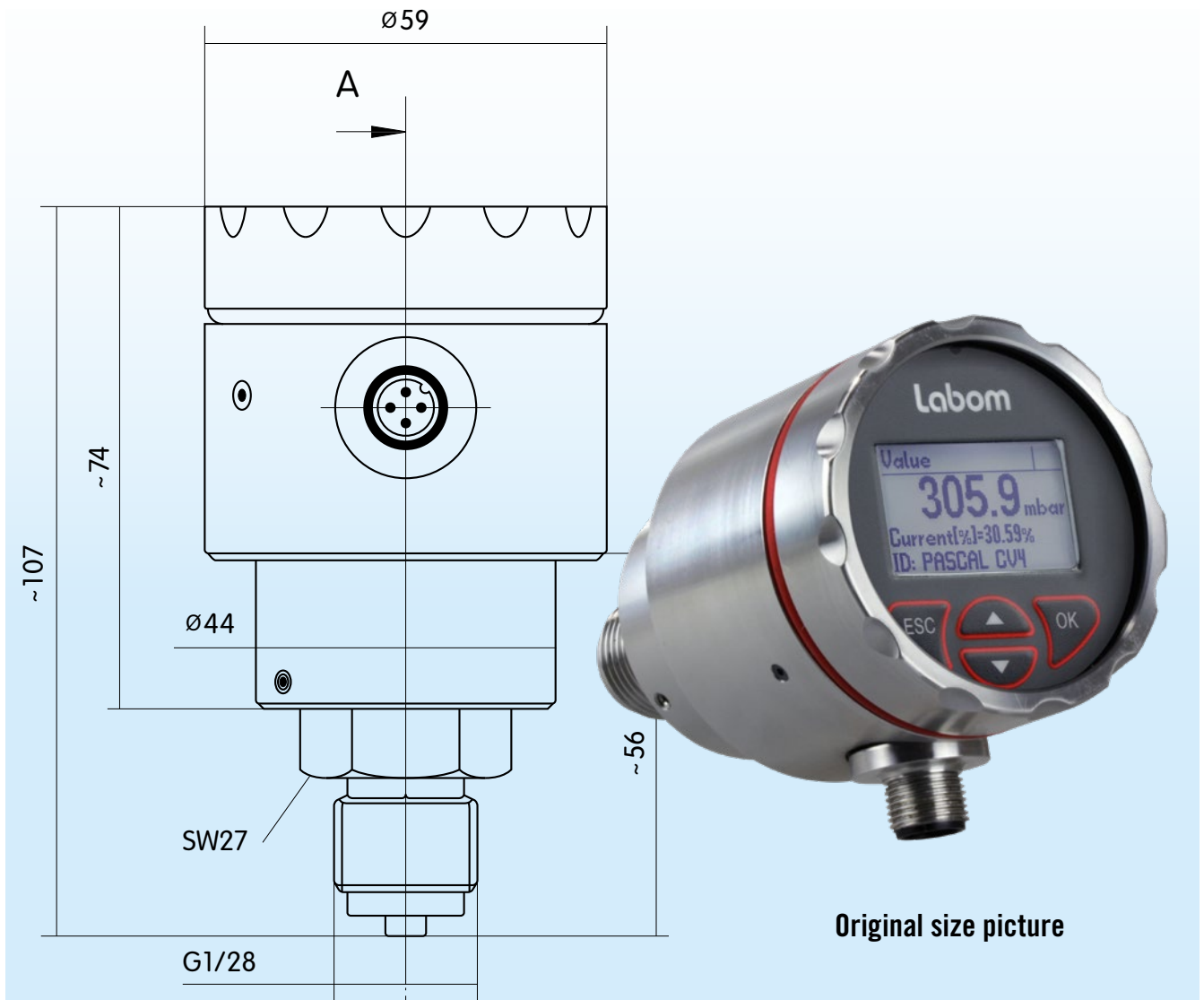
HYGIENIC ENGINEERING & DESIGN
EHEDG
COMPANY MEMBER 2019

THE V-LINE PROPERTIES



Title	CV4 – Compact pressure transmitter with intuitive operation in hygienic design	GV4 – Compact temperature transmitter 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 thermo-well 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 $\leq 0,1\%$	$\leq 0,1\%$
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: -50 ... 200 °C (Clamp-on: -50 ... 150 °C)
Output signal	4 ... 20 mA with HART® protocol	4 ... 20 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 $\pm 170^\circ$
- 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



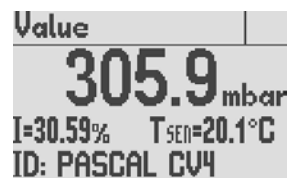
Continuously rotatable

Intuitive 4-button operation

Examples of display modes



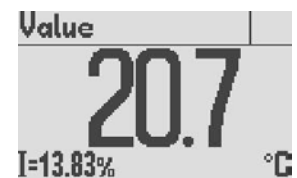
Two values



Four values



Four values



Large display

High-resolution graphic display
with backlight



Display size
33 x 20 mm

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

DESIGNS V-LINE - EXAMPLES

Pressure transmitter



CV4110
with inline diaphragm seal, hygienic



CV4110
with diaphragm seal clamp connection, hygienic



CV4100
with threaded connection



CV4110
with diaphragm seal flange-type, sturdy

Temperature transmitter



GV4730
for installation in a separate thermowell



GV4610
for pipe surface measurement



GV4730
with clamp thermowell connection



GV4730
with hygienic invasive thermowell system HIT

**CONSULTATION MEETING
DESIRED?**

Let's talk about your
measurement tasks!

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