

labom

MEASUREMENT TECHNOLOGY

# Pressure Transmitter PASCAL CV

*SMART  
SOLUTION!*

# NEW

**PASCAL CV, very smart:**

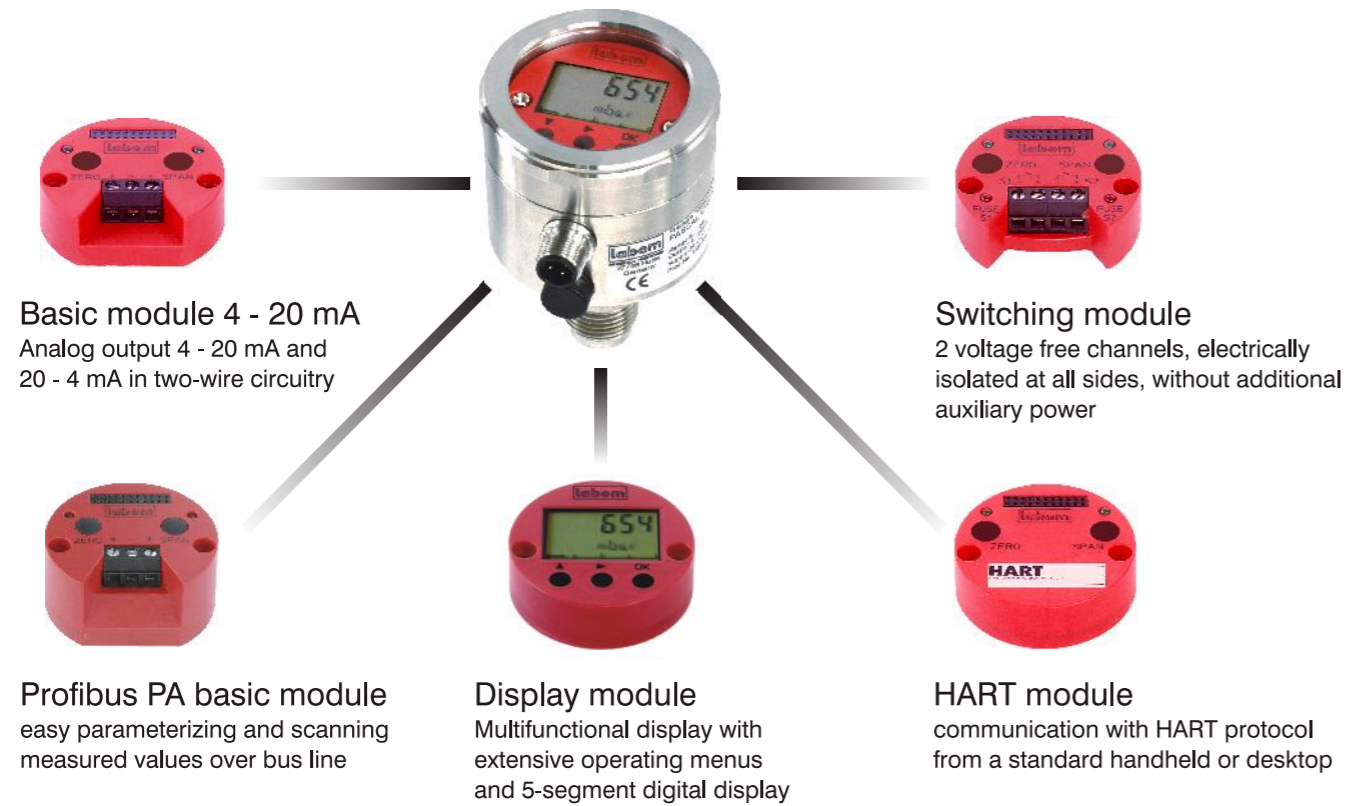
- intelligent "plug and measure" module technology
- easy to operate
- custom solutions for process measurement technology
- 24 hour delivery service
- very cost effective



# PASCAL CV

*SMART SOLUTION!*

Smart function modules for display, switching and communicating allow you to configure the device to deliver the best electronic signal conditioning solution for the application at hand. Convenient "plug technology" means that you can extend or replace these modules with ease on site without having to recalibrate or remove the device from the process ("plug and measure"). Automatic module detection renders programming redundant.



operating menus	display of display module	parameter		basic module: 4...20 mA				basic module: PROFIBUS PA		
		variability	standard	basic module	switching module	display module	HART@-module	basic module	display module	PDM
zero point *	RANGE / Zero	see instrument ranges	nominal range	x	x	x	x	—	—	x
measuring span *	RANGE / Span	see instrument ranges	nominal range	x	x	x	x	—	—	x
damping	DAMP	4...20 mA: 0...120 sec. Profibus: 0...300 sec.	0.0 sec.	w	—	x	x	—	—	x
min-max-value	HI / LO	pressure and temperature resettable	—	—	—	x	x	—	x	x
characteristic	FUNC	linear, table	linear	w	—	x	x	—	—	x
pressure unit	UNIT	bar, mbar, kPa, MPa, mmH2O, mH2O, kg/cm <sup>2</sup> , PSI	bar	w	—	x	x	—	w	x
measuring circuit test	LOOP	3.55...22 mA	—	—	—	x	x	—	—	—
alarm state	ALARM	<3.6 mA, >21.0 mA	<3.6 mA	w	—	x	x	—	—	—
current trimming	I-CAL	-2...+5 %	—	—	—	x	x	—	—	—
pressure trimming	P-CAL	zero point -50...+50 % of n.r. span -10...+10 % of n. range	—	—	—	x	x	x	x	x
table function	TABLE	2...31 points int able	0 % = 4 mA 100 % = 20 mA	w	—	x	x	—	—	—
system info	INFO	software, serial number, revision level	—	—	—	x	x	—	x	x
factory data reset	RESET	—	—	—	—	x	x	—	x	x
BUS address	BUS	0...126	126	—	—	—	—	w	x	x
switch points	SWCH1(2)	0.0...100.0 % of nominal range	50 %	—	x	x	x	—	—	—
hysteresis	SWCH1(2)/Hyst.	0.0...100.0 % of nominal range	0.1 % hyster.falling	—	w	x	x	—	—	—
switch function	SWCH1(2)/SwTyp	breaker, maker	breaker	—	w	x	x	—	—	—
write protection	—	ON, OFF	OFF	x	x	x	x	x	x	x

x = configurable w = factory setting \* = calibrated measuring span for devices with PROFIBUS PA basic module

# PASCAL CV

*SMART SOLUTIONS!*



**General Application in the Process Industry**  
(e.g. paper industry, water/waste water plants, power engineering)



with display module  
internal diaphragm G 1/2 B



with basic module 4...20mA,  
flush mounted diaphragm



with 3 modules,  
internal diaphragm 1/2" NPT



with 3 modules,  
flush mounted diaphragm G 1 B



**Food / Pharmaceutical / Bioengineering**  
hygienic design acc. to EHEDG, FDA and GMP



sanitary connection



clamp connection



Neumo BioControl



inline pipe connection



**Chemistry / Petrochemistry**  
EX-protection per ATEX, special materials for aggressive media



flush mounted diaphragm



flange connection



inline flange connection



flange connection (ext.)

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MEASUREMENT TECHNOLOGY

Very **SMART!**

## PASCAL CV

- Modular pressure transmitter
- Signal output:
  - 4 - 20 mA, can be retrofitted with optional HART® protocol
  - PROFIBUS PA
- Function modules
  - Multifunctional display with 5-segment digital display and bar graph
  - HART® protocol
  - Switching module with 2 floating channels, maximum 0.5 A switching current, electrically isolated at all sides, without additional auxiliary power
- Function module replacement on site without recalibration "plug and measure"
- Watchdog for electronics modules and measuring cell
- Classification per SIL 2
- Limits of measuring range 0 - 80 mbar to 0 - 100 bar
- Accuracy: < 0.25% (linearity, hysteresis and repeatability)
- Turndown 5:1
- Explosion protection: II 1/2G EEx ia IIC T6
- Hygienic housing design, stainless steel, excellent moisture protection (IP 66)
- All standard (and non-standard) process connections
- Medium temperature up to 350 °C
- Piezoresistive measuring cell, directly aerated, fully welded, without inside gasket



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