

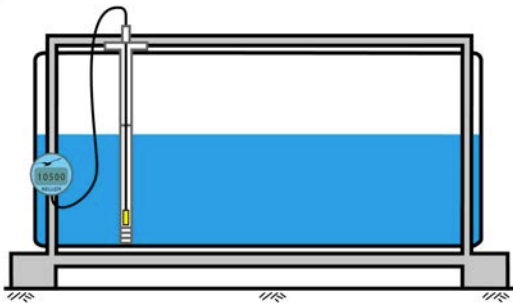


PRD-33X

[www.keller-druck.com](http://www.keller-druck.com)



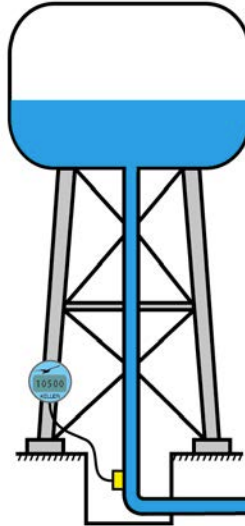
## Level Measurement of Pressure Tanks / Main Options



open system with one level probe



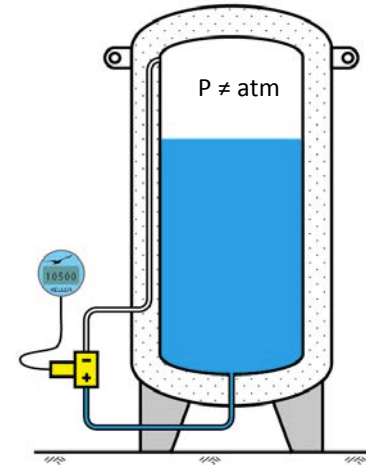
PR-36X(W) / PR-26Y



open system with one pressure connection



PR-33X / PR-35X (HT) / PR-41X



closed system over two pressures connections



PRD-33X / PD-33X / PD-39X



Optional display for all three systems with LEO 5 CA (int barometer enables abs. / abs. measurement)





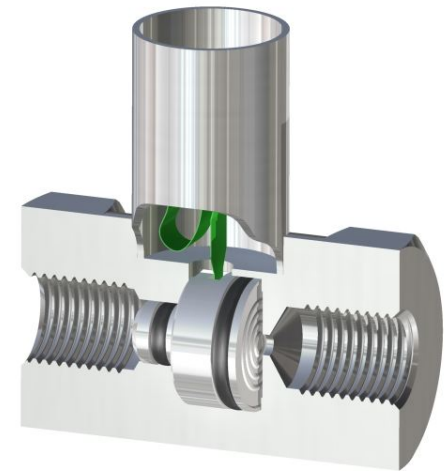
## Comparison

	PD-33X	PRD-33X	PD-39X
Method	Diff. Sensor wet/wet	1x diff. + 1x abs. sensor	2 separate sensors
Differential Pressure	1...30 bar	0,35 bar...35 bar	calculated: P1-P2
Overpressure	≈ 2 x FS	± 35 bar	≈ 3 x FS base pressure
Base pressure	0...200 or 0...600 bar	0...40 bar	0...50 bar
Base pres. measure/comp.	no / no	yes / yes	not necessary
TEB (-30...60°C)	0.1 % + base pressure dependency	0...350 mbar ± 1 %FS 0...1 bar ± 0,4 %FS 0...3 bar ± 0,2 %FS	0.2% of base pressure! Bei 35 bar base pressure: 20% @ 350 mbarFS 7% @ 1 barFS
Operating temperature	-40...100°C	-40...80°C	-40...100°C
Comp. temperature	-10...80°C	-30...60°C	-10...80°C
Material	1.4435	1.4435	1.4435
Medium-contacting parts	400 Hz 316L / 316L	200 Hz 316L / Silicon	200 Hz 316L / 316L

## PRD-33X Key Selling Points / Pricing

### KSP:

- Very high overload resistance:  $\pm 35$  bar also in the 0...350 mbar measuring range
- High-precision differential pressure measurement with compensated base pressure dependence (more accurate than conventional differential pressure transmitter)
- Dual sensor: abs. and diff.-measurement
- Very compact design
- Excellent value for money
- Independent base pressure measurement
- Pressure range from 350 mbar to 35 bar
- Signal output:  $\Delta P$ , base pressure, temperature
- Various electrical connections (binder, cable, M12)
- RS485 connection incl. software-manager for online data control, data save and programing



### Note:

- On one side diaphragm / other side backside of pressure sensor
- The + side holds a stainless steel diaphragm. The pressurization on the backside (- side) occurs directly on the silicon of the sensor.

# Combination KELLER PRD-33X + GSM-3 (cf. Avia-Application)

