





# KELLER

## Specifications

Pressure Ranges (all intermediate ranges possible)

PR-21 Y	2...10	bar FS
PAA-21 Y / PA-21 Y	2...1000	bar FS
Overpressure	2 x pressure range, max. 1100 bar	

PAA: Absolute. Zero at vacuum    PA: Sealed Gauge. Zero at 1000 mbar abs.    PR: Vented Gauge. Zero at atmospheric pressure

## Accuracy

Linearity (best fitted straight line) <sup>1)</sup>		typ. $\pm 0,25$ %FS	max. $\pm 0,5$ %FS
Total Error Band <sup>2)</sup>	0...50 °C	max. $\pm 1,0$ %FS	
	-10...80 °C	max. $\pm 1,5$ %FS	

<sup>1)</sup> including Hysteresis + Repeatability

<sup>2)</sup> Linearity + Hysteresis + Repeatability + Temp. Coeff. + Zero + Span Tolerance

Storage-/Operating Temperature    -40...100 °C

Stability    PR-Version    max.  $\pm 0,5$  %FS  
                  PAA/PA-Version    max.  $\pm 0,3$  %FS

Type	2-Wire	3-Wire	3-Wire
Signal Output	<b>4...20 mA</b>	<b>0...10 V</b>	<b>0,5...4,5 V</b>
Limitation Signal Output	3,2...22,3 mA	-1,2...11,2 V	0,1...4,9 V
Supply	8...32 VDC	13...32 VDC	8...32 VDC
Load Resistance	< (U-8 V) / 0,025 A	> 5 k $\Omega$	> 5 k $\Omega$
Limiting Frequency	2 kHz	2 kHz	2 kHz
Power Consumption		max. 5 mA	max. 4 mA

Electrical Connection    - Plug: M12 (4-pole), Packard, mPm  
                                      - Cable

Pressure Connection    G1/4" male, G1/8" male, 7/16"-20 UNF male and female

Response Time (Supply ON)    (0...99 %) < 5 ms  
Isolation    > 10 M $\Omega$  at 300 VDC  
EMC    EN 61000-6-2: 2005 / EN 61000-6-3: 2007 / EN 61326-2-3: 2006  
Dead Volume Change    < 0,1 mm<sup>3</sup>  
Material in Media Contact    - Stainless Steel AISI 316L (1.4404/1.4435)  
  - Viton<sup>®</sup> Seal external (no internal seals)  
Protection Class    M12-/Packard-Plug:    IP67 (with corresponding mating plug)  
                                  mPm-Plug:    IP65 (with corresponding mating plug)  
                                  Cable:    IP54  
Weight     $\approx$  38 g (G1/8")     $\approx$  50 g (G1/4")  
Endurance    > 10 million cycles, 0...100 %FS at 25 °C  
Oil Filling    Silicone oil

## Options

Temperature Range    Other temperature ranges on request. Maximal range: -40...+120 °C  
Oil Filling    Fluorocarbon oil (O<sub>2</sub>-compatible), olive-oil, lowest temperature oil (-55 °C)  
Pressure Connection, Electrical Connection    Others on request

Subject to alterations

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