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PIEZORESISTIVE PRESSURE TRANSMITTERS

STANDARD AND PROGRAMMABLE (PRO) VERSIONS

The KELLER Series 21 / 21 PRO are extremely reliable and cost effective pressure transmitters. These pressure transmitters use a programmable KELLER-ASIC microchip called "ProgRes" (programmable resistors). The "ProgRes" chip enables the transmitters to be set up and calibrated using automated test equipment, for improved product quality and lower costs. The PRO versions also have the unique feature that they can be programmed or reranged by the end user, via the hand held PP-96 programmer. Since its first introduction in 1989, the Series 21 / 21 PRO was an immediate success, thousands of transmitters and hundreds of programmers are in daily service worldwide.

This transmitter uses the KELLER Series 6 SC capsule as the core. The sensor is a piezo-resistive silicon pressure sensor, mounted in an oil filled capsule. The media pressure is isolated by a stainless steel diaphragm and transferred to the silicon sensor hydraulically via the oil.

The "ProgRes" circuit has programmable resistor networks, to set the Zero / Gain and thermal coefficients. All Series 21 / 21 PRO transmitters are subjected to comprehensive test procedures which cycle both pressure and temperature, the various parameters are then automatically calibrated and set by the computer controlled test rig at the end of the run. A final test then checks that the settings are correct and within specification, only then are the transmitters are released for use. Note: The standard Series 21 transmitters are NOT user programmable.

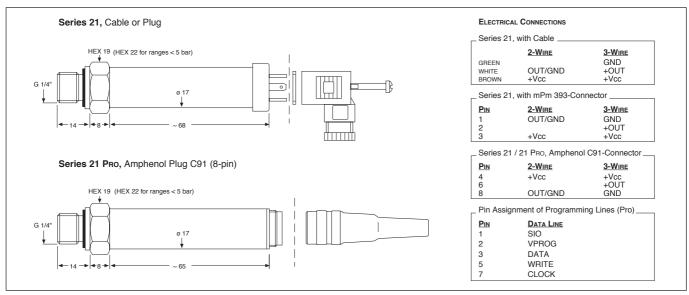
The programmable version transmitters, Series 21PRO has the data lines brought out to an Amphenol 8-pin connector, allowing simple and precise adjustment of Zero and Span. The KELLER Programmer PP-96 is used to facilitate programming of individual transmitters. The PP-96-10 can handle up to 10 identical transmitter at one time.

The signal output of a PRO version transmitter may be adjusted to give full-scale between 40% and 120% of the nominal range, and \pm 20% zero adjustment.

Series 21 / 21 Pro







Subject to alterations

6/02

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KELLER

SPECIFICATIONS	(BR: Basic Range of transducer)				(FS: adjusted Full Scale)						
	PRESSURE RANGES (BASIC RANGE). OVERPRESSURE. IN BAR										
PR-21, PR-21 Pro	-1	1	2	5	10	20					
PAA-21, PAA-21 Pro		1	2	5	10	20					
PA-21, PA-21 Pro				5	10	20	50	100	200	400	600
Overpressure	-1	3	4	10	20	30	75	150	300	500	700
Adjustment Range (PRO-Version)											
Minimum:	-0,4	0,4	0,8	2	4	8	20	40	80	160	240
Maximum:	-1	1,2	2,5	6	12	25	60	125	250	500	700
PR: Vented Gauge. Zero at atmospheric pressure	PAA: Absolute. Zero at vacuum PA: Sealed Gauge					auge. Zer	o at 1000	mbar abs.			

Signal Output	420 mA	010 Vdc	020 mA		
Supply Voltage	828 Vdc	1328 Vdc	828 Vdc		
Load Resistance	$R_{\Omega} = (U - 8 V) / 0,02 A$	> 5 kΩ	$R_{\Omega} = (U - 8 V) / 0,02 A$		
Current required	max. 25 mA	5 mA max.	max. 25 mA		
Zero/Span Tolerance	± 0,5% BR	± 0,5% BR	± 0,5% BR		
Configuration	2 Wire		3 Wire		
Electrical Connection:	OUT/GND: Pin 1 / White		GND: Pin 1 / Green		
mPm 393 or			+OUT: Pin 2 / White		
cable 2 m	+Vcc: Pin 3 / Brown		+Vcc: Pin 3 / Brown		
Linearity	± 0,2°	± 0,5% BR max.			
Total Error Band * +18+22°C	± 0,5°	≤ 2 bar: ± 1% BR max.			
Total Error Band * 0+50°C	± 1,0°	≤ 2 bar: ± 1,5% BR max.			
Total Error Band * -20+80°C	± 2,5°	≤ 2 bar: ± 3% BR max.			

^{*} Total error band includes linearity, hysteresis, repeatability, zero/span offsets and temperature effects.

Storage - / Operating Temperature Compensated Temperature Range Temperature-Coefficients...

· Zero · Sensitivity Stability

0...50 °C (others on request) typ. \leq 0,1% BR / 10 K

typ. $\leq 0.1\% / 10 \text{ K}$ $max. \le 0.2\% / 10 K$

-40...100 °C / -20...80 °C

≤ 0,2% FS / year

Electrical Connection mPm-Connector 393, incl. female connector or 2m screened cable Series 21:

Series 21 PRo: Amphenol C91 (8-pin), incl. female connector

 $max. \le 0.2\% BR / 10 K$

Dead Volume Change < 0,1 mm³

Pressure Connection G 1/4" male, Viton®-Eolastic®-seal

Materials in Contact with Media Stainless steel AISI 316

Protection, CEI529 mPm-plug or cable: IP 65 Amphenol-plug: IP 40

Weight (Plug Version) ≈ 85 g

Insulation

Pressure Endurance 10 million pressure cycles 0...100% FS at 25 °C

20 g (5...2000 Hz, max. amplitude ± 3 mm), according to IEC 68-2-6 Vibration Endurance

 $> 100 M\Omega / 500 V$

Shock Endurance 20 g (11 ms)

OPTIONS

Pressure Connection G 1/4" female, 7/16"-20-UNF male/female, 1/4"-18-NPT male, M 12 x 1,5 male

Electrical Connection Plug DIN 43650, others on request Output signals 0...5 V, 0,5...4,5 V, others on request

Oil Filling Halocarbon-oil for oxygen applications, olive-oil for food applications

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