



# PRESSURE

## STAINLESS STEEL PRESSURE TRANSMITTER P51 SERIES

### DESCRIPTION

The compact and robust **Kele P51 Series Stainless Steel Pressure Transmitter** is designed for use with a wide variety of liquid or gas media and for industrial, process or commercial applications. The 304L and 316L stainless steel wetted parts makes the transmitter ideally suited for media such as water, glycol, refrigerants, steam (w/pigtail), and ammonia. The **P51 Series** is available in models with a 4-20 mA output or with 1-5 VDC output and come standard with a 3 foot cable. It is very competitively priced and can be ordered in an optional enclosure assembly, or enclosed with a gauge for local pressure indication.

### FEATURES

- Robust compact package
- Laser welded stainless steel design
- Reverse polarity protection
- 3' cable standard
- Optional enclosure
- Optional gauge assembly
- Ranges up to 500 psi



P51 with optional enclosure and gauge



P51



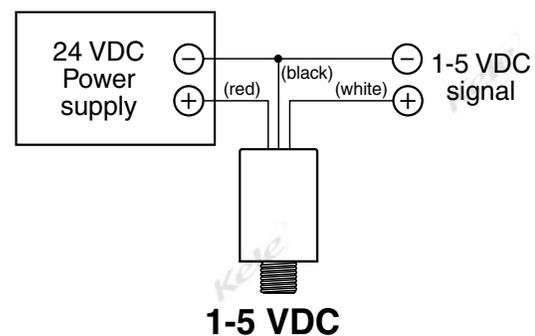
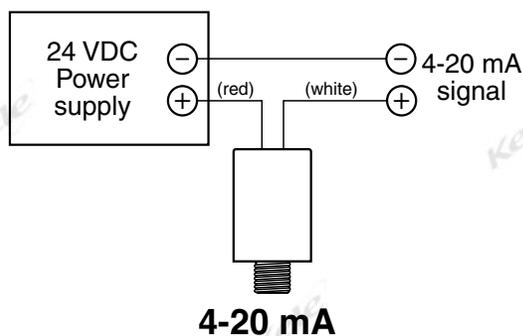
### APPLICATION

- Hot/chilled water
- Pneumatics
- Steam (with pigtail)
- Compressors
- Refrigeration
- Agriculture
- Hydraulics
- Process control
- Flow

### SPECIFICATIONS

|                                      |   |                            |   |
|--------------------------------------|---|----------------------------|---|
| <b>Supply Voltage</b>                | 8 to 30VDC @ 25 mA max  | <b>Wetted Parts</b>        | Brass, 304SS and 316SS  |
| <b>Current output</b>                | 8 to 30VDC @ <5 mA  | <b>Media Compatibility</b> | Liquid or Gas compatible w/SS   |
| <b>Voltage output</b>                | ±0.5% Full scale (includes linearity, repeatability and Hysteresis) | <b>Process Connection</b>  | Direct-1/8" MNPT, Encl. bulkhead-1/8" FNPT  |
| <b>Accuracy</b>                      | ±1% Full scale for =50 psig   | <b>Wiring Terminations</b> | 16 AWG pigtail, 2 used-(4-20mA), 3-(Volts)<br>36" (91cm) cable w/ Packard connector |
| <b>Signal Output (Volts,Current)</b> | 1-5V @ 50KΩ, 4-20 mA @ 800Ω (loop powered)                          | <b>Mounting</b>            | By process connection or optional enclosure   |
| <b>Sensor Type</b>                   | ASIC piezo-resistive and temp. compensated                          | <b>Enclosure Rating</b>    | (Optional) plastic enclosure, NEMA 4, (IP66)  |
| <b>Display</b>                       | 2" Dial gauge (model specific)                                      | <b>Dimensions</b>          | 5.11"H x 5.11"W x 2.95"D, (13.0 x 13.0 x 7.5 cm)                                    |
| <b>Overpressure</b>                  | (Burst) 3x rated pressure   | <b>Weight</b>              | 0.25 lb (0.11 Kg)   |
| <b>Max Operating Pressure</b>        | (Proof) 5x rated pressure   | <b>Warranty</b>            | 1 year  |
| <b>Operating Temperature</b>         | -40° to 221°F (-40° to 105°C)                                       |                            |   |
| <b>Operating Humidity</b>            | 10 to 90% Non-condensing  |                            |   |

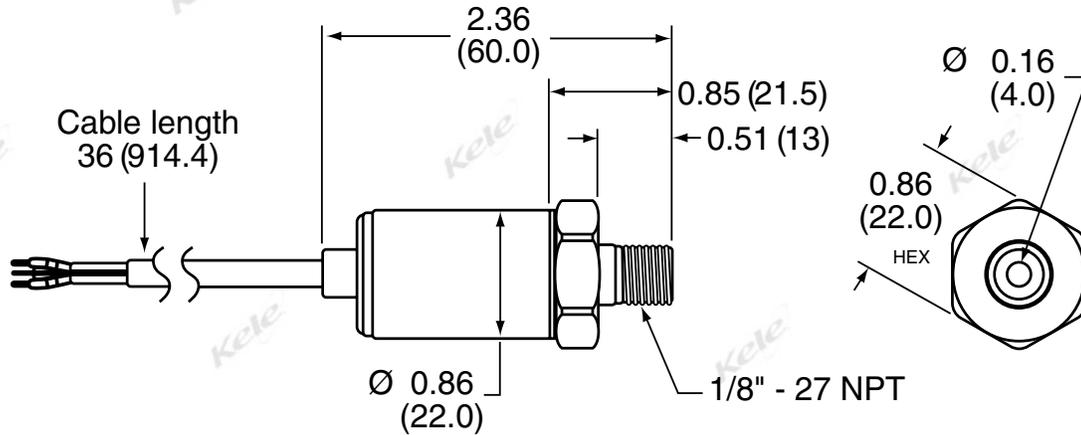
### WIRING





## STAINLESS STEEL PRESSURE TRANSMITTER P51 SERIES

### DIMENSIONS



### ORDERING INFORMATION

| MODEL | DESCRIPTION   |
|-------|---|
| P51   | Pressure transmitter  |
|       | <b>RANGE psig (kPa)</b>   |
| 15    | 0-15 (0-103)  |
| 50    | 0-50 (0-345)  |
| 100   | 0-100 (0-690)   |
| 200   | 0-200 (0-1379)  |
| 300   | 0-300 (0-2069)  |
| 500   | 0-500 (0-3448)  |
|       | <b>OUTPUT SIGNAL</b>  |
| 20    | 4-20 mA output  |
| 5     | 1-5 VDC output  |
|       | <b>OPTIONS</b>  |
| E     | Transmitter in watertight enclosure with stainless steel fittings |
| E-G   | Transmitter in enclosure with a pressure gauge, brass fittings    |

**P51** - **100** - **20** -  *Example: P51-100-20 0-100 psi transmitter with 4-20 mA output, no options*

### RELATED PRODUCTS

|                  |   |
|------------------|---|
| <b>47B-1</b>     | Brass piston style snubber                    |
| <b>47S-1</b>     | Stainless steel piston style snubber          |
| <b>DCP-1.5-W</b> | Power supply, 24 VAC IN to 24 VDC OUT         |
| <b>DCPA-1.2</b>  | Power supply, 120 VAC IN to 24 VAC/24 VDC OUT |
| <b>PT</b>        | 1/4" pigtail syphon with fittings             |
| <b>ZG-R01</b>    | 500Ω, 1/2W, 1% resistor                       |