



PRESSURE



Technology Solutions

# Tri-Clamp Gauge Pressure Transmitter

## Tek-Bar 3120C



### 1 FEATURES

- Digital communication HART protocol
- High accuracy up to  $\pm 0.2\%$
- 4-20 mA, digital signals with HART® Communication (Modbus RS485)
- Temperature compensation to improve accuracy
- Fully-sealed and fully isolated silicon pressure sensor
- Tri-Clamp process connection
- 355° rotation display module
- Push button programmable

### 3 APPLICATIONS

- Process Control System
- Refrigeration and HVAC Control
- Hydraulic System and Valve
- Machine Building
- Pumps and Compressors

### CONTACT US

796 Tek Drive, Crystal Lake, IL 60014 USA

+1 847 857 6076  
+1 847 655 7428

Email: [tektrol@tek-trol.com](mailto:tektrol@tek-trol.com)

[www.tek-trol.com](http://www.tek-trol.com)

### 2 SPECIFICATION

|                            |  |
|----------------------------|--|
| Process medium             | Compatible gases, steam and liquids  |
| Pressure type              | Gauge Pressure   |
| Process connection         | 1-1/2" Tri-Clamp or 2" Tri-Clamp   |
| Wetted materials           | 316L SS  |
| Ranges                     | 5.8 psig to 300 psig   |
| Accuracy                   | $\pm 0.2\%$ F.S.   |
| Stability                  | $\pm 0.2\%$ URL/5 years  |
| Working temperature        | -40 °F to 185 °F (-40 °C to 85 °C)   |
| Power consumption          | 500 mW at 24 VDC, 20 mA  |
| Insulation resistance      | 20 M at 100 VDC  |
| Working humidity           | 5-100% RH  |
| Output signal              | 4 mA to 20 mA with HART (Optional Modbus RS485)  |
| Vibration resistance       | According to IEC60068-2-6, 10g RMS (25-2000Hz)   |
| Impact resistance          | According to IEC60068-2-6, 500g/1ms  |
| Mounting position effect   | Apply to any position. Max value lower than 1.6 w.c. (400 Pa) can be corrected by zero clearing function |
| Protection class           | NEMA 4X (IP66)   |
| Damping time               | 0 -100 s adjustable  |
| Start-up after power off   | 6 s  |
| Response time              | 0.2 s  |
| Power supply               | 10-55 VDC (HART: 16-55 VDC)  |
| Max. Transmission Distance | 3281 ft  |
| Weight                     | Approx 3.43 lbs (1.55 Kg)  |