

SmartLine

Technical Information

STG700 SmartLine Gauge Pressure Specification 34-ST-03-102



Introduction

Part of the SmartLine® family of products, the STG700 and STG70L are suitable for monitoring, control and data acquisition. STG70X products feature piezoresistive sensor technology combining pressure sensing with on chip temperature compensation capabilities providing high accuracy, stability and performance over a wide range of application pressures and temperatures. The SmartLine family is also fully tested and compliant with Experia® PKS providing the highest level of compatibility assurance and integration capabilities. SmartLine easily meets the most demanding application needs for pressure measurement applications.

Best in Class Features:

- Accuracy up to 0.065 % of calibrated span
- Stability up to 0.02% of URL per year for five years
- Automatic temperature compensation
- Rangeability up to 100:1
- Response times as fast as 100ms
- Alphanumeric display capabilities
- External zero, span, & configuration capability
- Polarity insensitive electrical connections
- On-board diagnostic capabilities
- Integral Dual Seal design for safety based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0
- Full compliance to SIL 2/3 requirements as a standard.
- Modular design characteristics

Span & Range Limits:

Model	URL/Ma x Span psi (bar)	LRL psi (bar)	Min Span	Turn down
STG730/STG73L	50 (3.5)	-14.7 (-1.0)	0.5 (0.035)	100:1
STG740/STG74L	500 (35)	-14.7 (-1.0)	5 (.35)	100:1
STG770/STG77L	3000 (210)	-14.7 (-1.0)	30 (2.1)	100:1
STG78L	6000 (420)	-14.7 (-1.0)	60 (4.2)	100:1
STG79L	10000	-14.7 (-1.0)	100 (6.9)	100:1



Figure 1 – STG700 Gauge Pressure Transmitters feature field-proven piezoresistive sensor technology

Communications/Output Options:

- Honeywell Digitally Enhanced (DE)
- HART® (version 7.0)
- FOUNDATION™ Fieldbus

All transmitters are available with the above listed communications protocols.