

MODEL ST • OEM PRESSURE TRANSDUCER

- PNEUMATIC
EQUIPMENT
•
AIR
COMPRESSORS
•
AIR FILTRATION
MONITORING
•
INDUSTRIAL
CONTROLS

The Model ST pressure transducer combines Honeywell's proven silicon pressure sensing with the latest in ASIC technology in a rugged, industrial package. High value, coupled with outstanding performance, make this an ideal transducer for industrial control applications such as air com-pressors and pneumatic equipment. Temperature compensated, calibrated, and amplified, the ST has pressure ranges from 0-5 to 0-250 PSI.

The ST offers three standard output options for user flexibility, which are as follows: a 0.50 to 4.50 Vdc ratiometric output from 5 Vdc excitation, a 0.50 to 4.50 Vdc regulated output from 7 to 35 Vdc excitation, or a 4-20 mA output from 9.5 - 35 Vdc. The ST transducer delivers $\pm 1.0\%$ full scale accuracy (BFSL) over a wide temperature range of -40° to 100°C and utilizes a proven industry standard connector for high reliability.



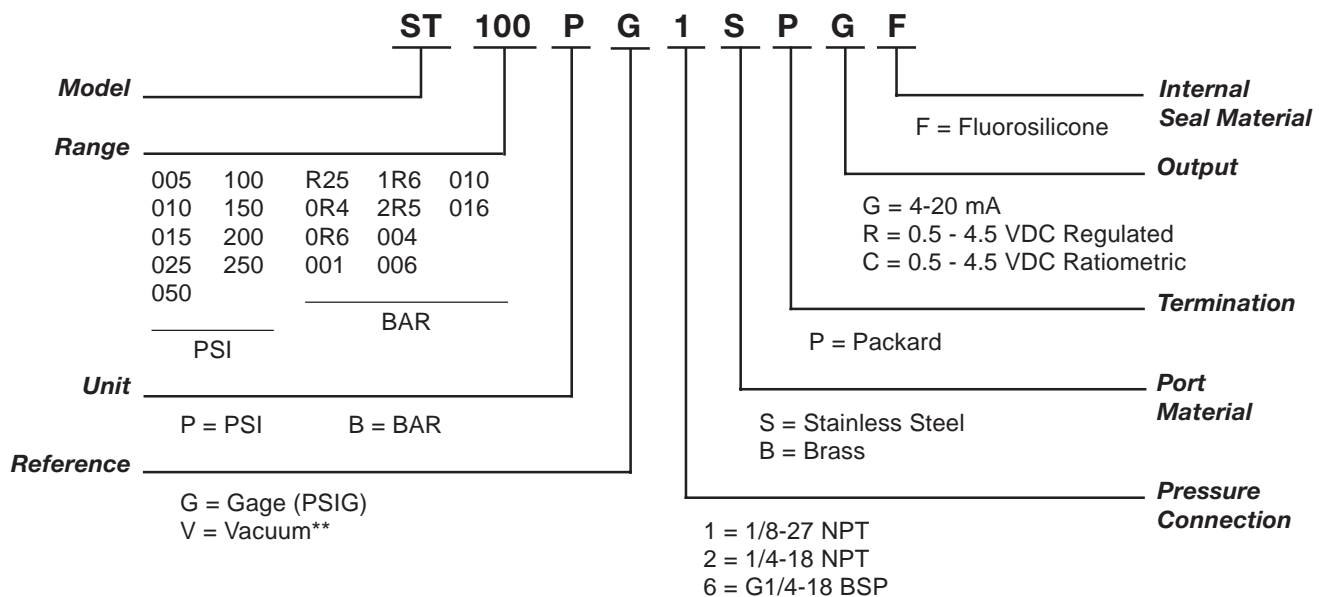
FEATURES

- High value and outstanding performance
- Amplified outputs
- Reverse polarity protection
- Less than 500 microseconds response time
- Exceeds CE Heavy Industrial EMC

BENEFIT

- Excellent OEM value
- Eliminates cost of external amplifiers
- Not damaged by reversed excitation
- Accurate high speed measurements

HOW TO ORDER



* The character R replaces the decimal point in fractional pressure ranges.

Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.

** Vacuum for 015 pressure range, full scale output ST-14.7 PSI.

TECHNICAL SPECIFICATIONS

RANGES* 5, 10, 15, 25, 50, 100, 150, 200, 250 psig*
0.25, 0.4, 0.6, 1.0, 1.6, 2.5, 4.0, 6.0, 10.0, 16.0 bar

PHYSICAL

Proof Pressure <100 psi (5 bar), 3 X rated range
>100 psi (5 bar), 2 X

Burst Pressure <100 psi (5 bar), 5 X rated range
>100 psi (5 bar), 3 X

Material in Contact 300 Series SS or brass,
With Media internal seal, silicon, polyetherimide

Weight 2.0 oz (57 gm)

ENVIRONMENTAL*

Shock 50 g's peak (5 ms)

Vibration Figure 514.2-5, Curve AK, Table 514.2-V, Random
Vibration Test (Overall g rms = 20.7 minimum)

ELECTRICAL*	Voltage	Current
Zero Output	0.5 Vdc	4.0 mA
Full Scale Output*	4.0 Vdc (0.50-4.50 Vdc)	16 mA (4-20 mA)

Excitation
Ratiometric 5 Vdc \pm 250 mV (7.0 Vdc max.) 9.5-35 Vdc
Regulated 7 - 35 Vdc

Supply Current 5.0 mA typical
(7.0 mA max.) N/A

Source (nominal) 2.0 mA N/A

Sink (nominal) 20 μ A @ zero output N/A

Supply Rejection Ratio 90 db

Output Impedance 25 W max. N/A

PERFORMANCE*

Response Time < 500 microseconds

EMI/RFI Exceeds CE heavy industrial
(30v/m radiated 150kHz-1GHz)

Electrical Connection Packard Metri-Pack™
Packard Metri-Pack connector requires
separate Packard #12065287 mating connector

Accuracy \pm 1.0% F.S.O. best fit straight line,
Includes: non-linearity, hysteresis,
non-repeatability. Thermal errors are not included.

Total Error Band \pm 2% F.S.O. Includes: zero offset error,
span error, thermal effect on zero and thermal effect
on span, non-linearity, hysteresis, non-repeatability

Compensated Operating and -40° to 100°C
Storage Temperature Range (-40° to 212°F)

NOTES:

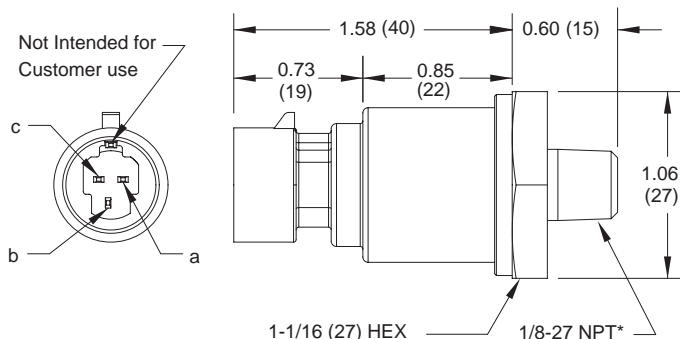
* All specifications are measured at 25°C (77°F) and at rated excitation
unless otherwise specified.

* Meets IEC-68-2 or MIL-STD 810C.

* Contact the factory to discuss other pressure ranges.

DIMENSIONS

xx.xx = inches
(xx.x) = mm



* 1/4-18 NPT and G1/4-18 BSP configurations are both optional.
Contact the factory to discuss other pressure port options.

PIN AND WIRE CODES

Pins	Voltage	Current
a	+ Excitation	+ Excitation
b	Output	- Excitation
c	Common	N/C

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Item # 1122300 M.G. 3/01

Honeywell

Sensing and Control
Honeywell
100 Discovery Way
Acton, MA 01720 USA

Tel: (877) 384-1300; Fax: (978) 263-0630



www.honeywell.com/sensing/products/di