

GP:50



RELIABLE & ACCURATE

PRESSURE, LEVEL & TEMPERATURE PRODUCTS



**INDUSTRIAL,
TEST &
CONTROL**



PRESSURE, LEVEL & TEMPERATURE PRODUCTS



INDUSTRIAL

COMPACT INDUSTRIAL PRESSURE TRANSDUCER

HIGH ACCURACY

CAN_{bus} J1939 / CAN_{Open}

OEM

111 / 211 / 311
APPLICATIONS

140 / 240 / 340
APPLICATIONS

241 / 341
APPLICATIONS

540 / 541
APPLICATIONS

1002 / 1003
APPLICATIONS

- Hydraulic test stands
- Pneumatic / Hydraulic control
- Pumps & compressors
- Steel & rolling mills
- Process control lines

- Automotive Testing
- Control Automation
- On-board vehicle
- Pneumatic/Hydraulic controls

- Engine & transmission test stands/dynos
- Hydraulic test stands
- Laboratory
- Jet engine testing

- Engine & transmission test stands/dynos
- Hydraulic test stands
- Laboratory
- Jet engine testing

- On-board vehicle
- Pneumatic / Hydraulic control
- OEM control systems

FEATURES

FEATURES

FEATURES

FEATURES

FEATURES

- Rugged welded design
- High cycle life
- High proof pressure
- Hazardous approvals

- Compact design
- Rugged, welded, SST construction
- Optional process and electrical connections

- High accuracy $\pm 0.05\%$
- Compact 1" diameter
- All SST construction
- Thermal stability $\pm 0.2\%$ FSO/100 °F
- -40 °F to +250 °F operation

- Compact 1" dia. design
 - All SST construction
- 541 Series Offers:
- High accuracy $\pm 0.05\%$
 - Improved thermal stability option, $\pm 0.2\%$ FSO/100 °F
 - -40 °F to +250 °F operation

- 0.870" diameter design
- Compact rugged design
- Rated for high shock

RANGES (PSI)

RANGES (PSI)

RANGES

RANGES (PSI)

RANGES (PSI)

0-1 PSI thru 0-100K PSI
G, SG, V, A

0-1 PSI thru 0-30K PSI
G, SG, V, A

0-1 PSI thru 0-20K PSI
G, SG, V, A

0-1 PSI thru 0-30K PSI
G, SG, V, A

0-15 thru 0-10K PSI
G, SG, V, A

ACCURACY (BSFL %FSO)

ACCURACY (BSFL %FSO)

ACCURACY (BSFL %FSO)

ACCURACY (BSFL %FSO)

ACCURACY (BSFL %FSO)

$\pm 0.5\%$, $\pm 0.2\%$ or $\pm 0.1\%$

$\pm 0.2\%$ or $\pm 0.1\%$

$\pm 0.1\%$ or $\pm 0.05\%$

540: $\pm 0.2\%$ or $\pm 0.1\%$
541: $\pm 0.1\%$ or $\pm 0.05\%$

$\pm 0.5\%$ or $\pm 0.25\%$

OUTPUT (STD)

OUTPUT (STD)

OUTPUT (STD)

OUTPUT (STD)

OUTPUT (STD)

mV/V, 0-5 Vdc
or 4-20 mA

mV/V, 0-5 Vdc
or 4-20 mA

0-5 Vdc or 4-20 mA

CAN Open
J1939

0-5 Vdc or 4-20 mA

PROCESS PORT (STD)

PROCESS PORT (STD)

PROCESS PORT (STD)

PROCESS PORT (STD)

PROCESS PORT (STD)

1/4" NPT (F)

1/4" NPT (M)

1/4" NPT (M)

1/4" NPT (M)

1/4" NPT (M)

ELECTRICAL (STD)

ELECTRICAL (STD)

ELECTRICAL (STD)

ELECTRICAL (STD)

ELECTRICAL (STD)

Liquid tight connection
with 36" leads

PTIH-10-6P
or equivalent

PTIH-10-6P
or equivalent

PTIH-10-6P
or equivalent

DIN 43650 Form C

WETTED MATERIAL (STD)

WETTED MATERIAL (STD)

WETTED MATERIAL (STD)

WETTED MATERIAL (STD)

WETTED MATERIAL (STD)

17-4 PH or 316 SST

17-4 PH or 316 SST

17-4 PH or 316 SST

17-4 PH or 316 SST

17-4 PH or 316 SST

INSTRUMENTS DESIGNED FOR INDUSTRIAL AUTOMATION, PROCESS CONTROL, AUTOMOTIVE & JET ENGINE TEST STAND APPLICATIONS.



**MINIATURE FLUSH
DIAPHRAGM**

188 / 288 / 388



SPIKE SERIES RUGGEDIZED

SPIKE



**TEMPERATURE
TRANSMITTER**

340T



**HIGH RANGE
DIFFERENTIAL**

114 / 214 / 314



**MIDRANGE
DIFFERENTIAL**

115 / 215 / 315

| APPLICATIONS | APPLICATIONS | APPLICATIONS | APPLICATIONS | APPLICATIONS |
|--|---|--|---|--|
| <ul style="list-style-type: none"> • Adhesives / Paints • Slurries • High pressure cleaning • Hydraulic Test stands | <ul style="list-style-type: none"> • Off-road vehicle • Compressors & pumps • Test stands • Stamping presses • Die casting | <ul style="list-style-type: none"> • Oil and gas • Chemical industries • Automotive test stands • Power generation • Laboratory | <ul style="list-style-type: none"> • Hydraulic test stands • High pressure valve testing • High pressure control systems | <ul style="list-style-type: none"> • Hydraulic test stands • Pump & compressors • Fuel test stands • Valve testing |
| FEATURES | FEATURES | FEATURES | FEATURES | FEATURES |
| <ul style="list-style-type: none"> • Flush mount, Non-plugging • Compact 3/4" hex body • Temperature output options • -65 °F to +385 °F operating temperature (for 188 only) | <ul style="list-style-type: none"> • Rugged design for high cyclical applications • Improved protection against transient spikes | <ul style="list-style-type: none"> • 3/4" to 7" probe length • -40 °F to +350 °F Ranges • Rugged, compact design | <ul style="list-style-type: none"> • DP ranges to 20K • No oil fill design • High cyclical rated | <ul style="list-style-type: none"> • SST construction • 10K static line option • High Accuracy options |
| RANGES (PSI) | RANGES (PSI) | RANGES (PSI) | RANGES (PSI) | RANGES (PSI) |
| 0-300 PSI to 0-15K PSI | 0-300 thru 0-15K PSI | -40 °F to +350 °F Process temperature | 0-500 PSID thru 0-20K PSID | 0-30 PSID thru 0-7,500 PSID |
| ACCURACY (BSFL %FSO) | ACCURACY (BSFL %FSO) | ACCURACY (BSFL %FSO) | ACCURACY (BSFL %FSO) | ACCURACY (BSFL %FSO) |
| ±0.5%, ±0.2% or ±0.1% | 0.2% and 0.1% | ±1% FSO | ±0.5% or ±0.2% | ±0.5%, ±0.2%, ±0.1% |
| OUTPUT (STD) | OUTPUT (STD) | OUTPUT (STD) | OUTPUT (STD) | OUTPUT (STD) |
| mV/V, 0-5 Vdc or 4-20 mA | mV/V, 0-5 Vdc or 4-20 mA | 0-5 Vdc or 4-20 mA | mV/V, 0-5 Vdc or 4-20 mA | mV/V, 0-5 Vdc or 4-20 mA |
| PROCESS PORT (STD) | PROCESS PORT (STD) | PROCESS PORT (STD) | PROCESS PORT (STD) | PROCESS PORT (STD) |
| 7/16 - 20 Male | 1/4" NPT (F) | 1/4" NPT (M) | 1/4" NPT (F) | 1/4" NPT (F) |
| ELECTRICAL (STD) | ELECTRICAL (STD) | ELECTRICAL (STD) | ELECTRICAL (STD) | ELECTRICAL (STD) |
| PTIH-10-6P or equivalent | Liquid tight connection with 36" leads | PTIH-10-6P or equivalent | Liquid tight connection with leads | Liquid tight connection with leads |
| WETTED MATERIAL (STD) | WETTED MATERIAL (STD) | WETTED MATERIAL (STD) | WETTED MATERIAL (STD) | WETTED MATERIAL (STD) |
| 17-4 PH SST | 17-4 PH SST | 316 SST | 17-4 PH SST | 316L SST |

- Some options may affect performance, size, or other characteristics. Consult factory for final selection.
 - Standard options shown. Many options available, consult factory.
 - Accuracy includes: non-linearity, hysteresis & repeatability - BFSL.



COMPACT DIFFERENTIAL

136 / 236 / 336

APPLICATIONS

- Automotive / Jet engine test stands
- Flow measurement
- Leak test
- Laboratory



LOW RANGE DIFFERENTIAL

216 / 316

APPLICATIONS

- Engine test stands
- Fuel test stands
- Tank level
- Leak testing
- Flow measurement



CRYOGENIC / HIGH TEMPERATURE

7720

APPLICATIONS

- Liquefied natural gas transport processing and storage
- Cryogenic gases
- Reactor cooling



DUAL PRESSURE & TEMPERATURE TRANSDUCER

243 / 343

APPLICATIONS

- Vehicle, engine & transmission oil monitoring
- Automotive test stands
- Process skids
- Medical equipment
- Laboratory R&D

FEATURES

- Compact design
- High accuracy option
- 1K PSI line pressure
- Lightweight, rugged SST design
- Thermal compensation options from -40 °F to 250 °F

FEATURES

- Ultra low ranges to 2.5" WC
- 500 PSI proof & line pressure
- 2K & 5K PSI line pressure options
- High accuracy option

FEATURES

- -320 °F to +400 °F temperature limit
- Class 1 Div 1, Intrinsically safe options
- SST armored capillary
- Isolated electronics

FEATURES

- Pressure & temperature in a single device
- Compact 1-inch (25.4 mm) diameter
- Probe lengths from 3/4" to 7"
- Rugged, all-welded SST design

RANGES (PSI)

1 PSID thru 500 PSID

RANGES (PSI)

0-2.5" WCD thru
0-150 PSID

RANGES (PSI)

150 PSI to 10K PSI

RANGES (PSI)

Pressure: 0-50 thru 0-15K PSI
Temperature: -40 °F to +250 °F

ACCURACY (BSFL %FSO)

±0.20%, ±0.10% or ±0.05%

ACCURACY (BSFL %FSO)

±0.20%, ±0.10% or ±0.05%

ACCURACY (BSFL %FSO)

±0.5% FSO, ±0.20% FSO

ACCURACY (BSFL %FSO)

Pressure: ±0.5%, or ±0.2%
Temperature: ±1% FSO

OUTPUT (STD)

mA, 0-5 Vdc, mV/V,
CANbus, USB or RS485

OUTPUT (STD)

0-5 Vdc or 4-20 mA

OUTPUT (STD)

0-5 Vdc or 4-20 mA

OUTPUT (STD)

(243) 0-5 Vdc
(343) 4-20 mA

PROCESS PORT (STD)

1/4" NPT (F)

PROCESS PORT (STD)

1/4" NPT (F)

PROCESS PORT (STD)

AS4395E04

PROCESS PORT (STD)

1/4" NPT (M)

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

ELECTRICAL (STD)

Liquid tight connections with leads

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

WETTED MATERIAL (STD)

316 SST

WETTED MATERIAL (STD)

316 SST

WETTED MATERIAL (STD)

17-4 PH SST

WETTED MATERIAL (STD)

17-4PH or 316 SST



AEROSPACE

Products designed for aerospace & military applications such as space flight, ground support, flight testing, on-board military vehicles, tanks, submarines, ROV's, DSRV's, unmanned flight vehicles, propulsion systems, cryogenic gas storage & any application requiring rugged, high reliability instruments.



OIL & GAS

Products designed for tough oil field applications such as well head & BOP control, subsea pressure, level and temperatures to 30,000 feet, gas pipeline & compressor control, MWD, coil tubing, fracing, cementing and other well servicing applications requiring rugged, reliable instruments.



MELT PRESSURE

Products designed for the injection molding, plastics, chemical processing and solar thermal marketplace requiring rugged, high temperature rated instruments.

*GP:50
also provides
instruments
for the:*

OIL & GAS
PROCESS CONTROL
AUTOMOTIVE ON-BOARD
AUTOMOTIVE TEST STAND
PLASTIC

CRYOGENIC
WATER &
WASTE WATER
SANITARY &
OEM MARKETPLACE.



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GP:50

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Return Service Requested

Toll Free: (877)774-4751 Phone: (716)773-9300 Fax: (716)773-5019 Web: www.GP50.com

- Pressure, Level & Temperature Instrumentation
- Ranges from 0.5" WC thru 0-100,000 PSI
- 4-20 mA, HART, Low-power Vdc or CANbus outputs
- Rugged, hermetic, welded stainless steel construction
- Gauge, absolute, differential & vacuum formats
- Fixed ranges or field adjustable
- Cryogenic or Ultra-High temperature solutions
- Custom designs to meet your specific application



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