



GP:50



RELIABLE & ACCURATE

PRESSURE, LEVEL & TEMPERATURE PRODUCTS



**INDUSTRIAL,
TEST &
CONTROL**



PRESSURE, LEVEL & TEMPERATURE PRODUCTS



INDUSTRIAL

111 / 211 / 311

APPLICATIONS

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

FEATURES

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

RANGES (PSI)

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

ACCURACY (BSFL %FSO)

±0.5%, ±0.2% or ±0.1%

OUTPUT (STD)

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

PROCESS PORT (STD)

1/4" NPT (F)

ELECTRICAL (STD)

Liquid tight connection
with 36" leads

WETTED MATERIAL (STD)

17-4 PH or 316 SST



COMPACT INDUSTRIAL PRESSURE TRANSDUCER

140 / 240 / 340

APPLICATIONS

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

FEATURES

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

RANGES (PSI)

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

ACCURACY (BSFL %FSO)

±0.2% or ±0.1%

OUTPUT (STD)

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

PROCESS PORT (STD)

1/4" NPT (M)

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

WETTED MATERIAL (STD)

17-4 PH or 316 SST



HIGH ACCURACY

241 / 341

APPLICATIONS

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

FEATURES

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

RANGES

0-1 PSI thru 0-8K PSI
G, SG, V, A

ACCURACY (BSFL %FSO)

±0.1% or ±0.05%

OUTPUT (STD)

0-5 Vdc or 4-20 mA

PROCESS PORT (STD)

1/4" NPT (M)

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

WETTED MATERIAL (STD)

17-4 PH or 316 SST



CANbus J1939 / CAN Open

540 / 541

APPLICATIONS

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

FEATURES

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

RANGES (PSI)

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

ACCURACY (BSFL %FSO)

540: ±0.2% or ±0.1%
541: ±0.1% or ±0.05%

OUTPUT (STD)

CAN Open
J1939

PROCESS PORT (STD)

1/4" NPT (M)

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

WETTED MATERIAL (STD)

17-4 PH or 316 SST



OEM

1002 / 1003

APPLICATIONS

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

FEATURES

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

RANGES (PSI)

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

ACCURACY (BSFL %FSO)

±0.5% or ±0.25%

OUTPUT (STD)

0-5 Vdc or 4-20 mA

PROCESS PORT (STD)

1/4" NPT (M)

ELECTRICAL (STD)

DIN 43650 Form C

WETTED MATERIAL (STD)

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

APPLICATIONS

- Adhesives / Paints
- Slurries
- High pressure cleaning
- Hydraulic Test stands

FEATURES

- Flush mount, Non-plugging
- Compact 3/4" hex body
- Temperature output options
- -65 °F to +385 °F operating temperature (for 188 only)

RANGES (PSI)

0-300 PSI to
0-15K PSI

ACCURACY (BSFL %FSO)

±0.5%, ±0.2% or ±0.1%

OUTPUT (STD)

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

PROCESS PORT (STD)

7/16 - 20 Male

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

WETTED MATERIAL (STD)

17-4 PH SST



SPIKE SERIES RUGGEDIZED

SPIKE

APPLICATIONS

- Off-road vehicle
- Compressors & pumps
- Test stands
- Stamping presses
- Die casting

FEATURES

- Rugged design for high cyclical applications
- Improved protection against transient spikes

RANGES (PSI)

0-300 thru 0-15K PSI

ACCURACY (BSFL %FSO)

0.2% and 0.1%

OUTPUT (STD)

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

PROCESS PORT (STD)

1/4" NPT (F)

ELECTRICAL (STD)

Liquid tight connection
with 36" leads

WETTED MATERIAL (STD)

17-4 PH SST



**TEMPERATURE
TRANSMITTER**

340T

APPLICATIONS

- Oil and gas
- Chemical industries
- Automotive test stands
- Power generation
- Laboratory

FEATURES

- 3/4" to 7" probe length
- -40 °F to +350 °F Ranges
- Rugged, compact design

RANGES (PSI)

-40 °F to +350 °F
Process temperature

ACCURACY (BSFL %FSO)

±1% FSO

OUTPUT (STD)

0-5 Vdc or 4-20 mA

PROCESS PORT (STD)

1/4" NPT (M)

ELECTRICAL (STD)

PTIH-10-6P
or equivalent

WETTED MATERIAL (STD)

316 SST



**HIGH RANGE
DIFFERENTIAL**

114 / 214 / 314

APPLICATIONS

- Hydraulic test stands
- High pressure valve testing
- High pressure control systems

FEATURES

- DP ranges to 20K
- No oil fill design
- High cyclical rated

RANGES (PSI)

0-500 PSID thru
0-20K PSID

ACCURACY (BSFL %FSO)

±0.5% or ±0.2%

OUTPUT (STD)

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

PROCESS PORT (STD)

1/4" NPT (F)

ELECTRICAL (STD)

Liquid tight connection
with leads

WETTED MATERIAL (STD)

17-4 PH SST



**MIDRANGE
DIFFERENTIAL**

115 / 215 / 315

APPLICATIONS

- Hydraulic test stands
- Pump & compressors
- Fuel test stands
- Valve testing

FEATURES

- SST construction
- 10K static line option
- High Accuracy options

RANGES (PSI)

0-30 PSID thru
0-7,500 PSID

ACCURACY (BSFL %FSO)

±0.5%, ±0.2%, ±0.1%

OUTPUT (STD)

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

PROCESS PORT (STD)

1/4" NPT (F)

ELECTRICAL (STD)

Liquid tight connection with
leads

WETTED MATERIAL (STD)

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



**LOW RANGE
DIFFERENTIAL**

216 / 316

APPLICATIONS



**CRYOGENIC / HIGH
TEMPERATURE**

211 / 311 HD-QX

APPLICATIONS



**DUAL PRESSURE &
TEMPERATURE TRANSDUCER**

243 / 343

APPLICATIONS

<ul style="list-style-type: none"> • Automotive / Jet engine test stands • Flow measurement • Leak test • Laboratory 	<ul style="list-style-type: none"> • Engine test stands • Fuel test stands • Tank level • Leak testing • Flow measurement 	<ul style="list-style-type: none"> • Liquefied natural gas transport processing and storage • Cryogenic gases • Reactor cooling 	<ul style="list-style-type: none"> • Vehicle, engine & transmission oil monitoring • Automotive test stands • Process skids • Medical equipment • Laboratory R&D
FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> • Compact design • High accuracy option • 1K PSI line pressure • Lightweight, rugged SST design • Thermal compensation options from -40 °F to 250 °F 	<ul style="list-style-type: none"> • Ultra low ranges to 2.5" WC • 500 PSI proof & line pressure • 2K & 5K PSI line pressure options • High accuracy option 	<ul style="list-style-type: none"> • -320 °F to +400 °F temperature limit • Class 1 Div 1, Intrinsically safe options • SST armored capillary • Isolated electronics 	<ul style="list-style-type: none"> • 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)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
1 PSID thru 500 PSID	0-2.5" WCD thru 0-150 PSID	0-300 PSI to 10K PSI	Pressure: 0-50 thru 0-15K PSI Temperature: -40 °F to +250 °F
ACCURACY (BSFL %FSO)	ACCURACY (BSFL %FSO)	ACCURACY (BSFL %FSO)	ACCURACY (BSFL %FSO)
±0.20%, ±0.10% or ±0.05%	±0.20%, ±0.10% or ±0.05%	±0.5% FSO, ±0.20% FSO	Pressure: ±0.5%, or ±0.2% Temperature: ±1% FSO
OUTPUT (STD)	OUTPUT (STD)	OUTPUT (STD)	OUTPUT (STD)
mA, 0-5 Vdc, mV/V, CANbus, USB or RS485	0-5 Vdc or 4-20 mA	0-5 Vdc or 4-20 mA	(243) 0-5 Vdc (343) 4-20 mA
PROCESS PORT (STD)	PROCESS PORT (STD)	PROCESS PORT (STD)	PROCESS PORT (STD)
1/4" NPT (F)	1/4" NPT (F)	AS4395E04	1/4" NPT (M)
ELECTRICAL (STD)	ELECTRICAL (STD)	ELECTRICAL (STD)	ELECTRICAL (STD)
PTIH-10-6P or equivalent	Liquid tight connections with leads	PTIH-10-6P or equivalent	PTIH-10-6P or equivalent
WETTED MATERIAL (STD)	WETTED MATERIAL (STD)	WETTED MATERIAL (STD)	WETTED MATERIAL (STD)
316 SST	316 SST	17-4 PH SST	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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