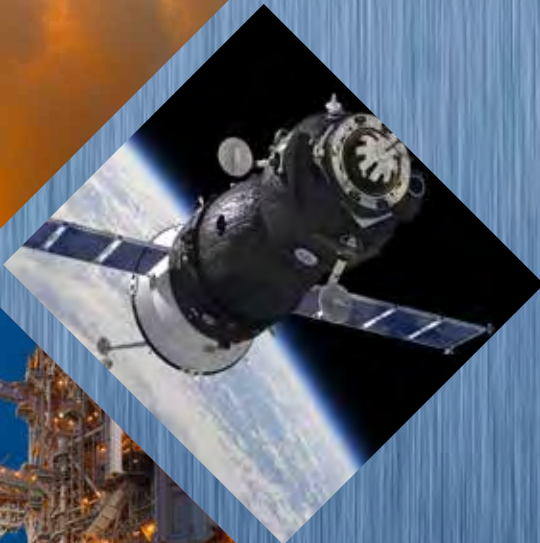




RELIABLE & ACCURATE

PRESSURE, LEVEL & TEMPERATURE PRODUCTS



**AEROSPACE
MARKETS**



PRESSURE, LEVEL & TEMPERATURE PRODUCTS



HIGH ACCURACY TESTING

241 / 341



FLIGHT HERITAGE

7100 / 7200



COMPACT FLIGHT HERITAGE

7202



MINIATURE, HIGH-TEMP. PRESSURE TRANSDUCER

190



IN-LINE DIFFERENTIAL PRESSURE TRANSDUCER

7320

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> High Accuracy Testing Jet engine test stands Ground support systems Launch Pad Support Hydraulic & Pneumatic valve testing Emission testing 	<ul style="list-style-type: none"> Commercial & Defense satellites Launch vehicles Aircraft / Avionics Suborbital spacecraft UAV Helicopter and rotorcraft Propulsion Systems 	<ul style="list-style-type: none"> Commercial and Defense satellites Aircraft Systems/ Avionics Launch Vehicles Ground Support Hydraulic Systems 	<ul style="list-style-type: none"> Propulsion Systems Hydraulic Systems Robotic & Automation Satellites, rockets and military vehicles 	<ul style="list-style-type: none"> Satellites, rockets and military vehicles Propulsion Systems Transmission and brake test stands Robotic & Automation
FEATURES	FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> High accuracy to $\pm 0.05\%$ FSO High thermal stability $\pm 0.25\%$ FSO/100 °F -40 to +250 °F compensation Compact, lightweight, all stainless steel design Fast response 	<ul style="list-style-type: none"> High accuracy, up to $\pm 0.1\%$ FSO "B+ and S" class electronics option High shock & vibration rated per MIL-STD-810F Secondary containment up to 4500 PSI 	<ul style="list-style-type: none"> Accuracy up to $\pm 0.1\%$ BFSL Compact 1.5" package Maximum weight 5 oz RTD temperature output High shock and vibration 0-100 thru 0-10K 	<ul style="list-style-type: none"> Miniature, lightweight design <12 grams weight <0.8" (20mm) long Diameter <0.5" (12mm) Rugged design for high shock & vibration applications 	<ul style="list-style-type: none"> Rugged design for high shock & vibration applications In-Line DP design for space saving Flight heritage Lightweight design
RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
0-30" WC thru 20K	0-1 thru 0-30K PSI	0-100 thru 0-10K	0-250 thru 0-6K PSIA, PSIG, PSISG	1 PSID thru 500 PSID
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
$\pm 0.10\%$ and $\pm 0.05\%$	$\pm 0.2\%$ or $\pm 0.05\%$ BFSL	$\pm 0.3\%$ or $\pm 0.1\%$	$\pm 0.25\%$ or 0.1%	$\pm 0.25\%$ or 0.1%
OUTPUT	OUTPUT	OUTPUT	OUTPUT	OUTPUT
(241) 0 to 5 Vdc (341) 4-20 mA	(7100) mV/V (7200) Vdc or 4-20 mA	Vdc	10-13 mV/V typical	4-20 mA, Vdc, mV/V, CANbus, USB or RS485
PROCESS PORT	PROCESS PORT (STD)	PROCESS PORT	PROCESS PORT	PROCESS PORT
1/4" NPT (M)	AS4395E04	AS4395E06 9/16-18 UNF-3A (M)	10-32 UNF-2A (M) w/O-Ring	AS4395E04
ELECTRICAL	ELECTRICAL (STD)	ELECTRICAL	ELECTRICAL	ELECTRICAL
PTIH-10-6P	PTIH-10-6P or MIL D38999	24 AWG, 5 conductor, Teflon insulated, braided shield & Viton jacketed cable	6 ft 30 AWG High temp silicon cable	PTIH-10-6P or MIL D38999
WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS
$\leq 2,000$ PSI: 316L SST $> 2,000$ PSI: 17-4 PH SST	316L SST or 17-4 PH SST	15-5 PH SST	Titanium	316L SST

HIGH RELIABILITY INSTRUMENTS DESIGNED FOR SPACE, FLIGHT, MILITARY, SUBSEA AND GROUND SUPPORT APPLICATIONS.



GROUND SUPPORT \HIGH-ACCURACY DIFFERENTIAL
136 / 236 / 336



LOW RANGE HIGHLINE DIFFERENTIAL
216 / 316



FLIGHT HERITAGE DIFFERENTIAL
7300



MID & HIGH RANGE DIFFERENTIAL
7400



LOW PRESSURE AEROSPACE DIFFERENTIAL
7450

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> Commercial & defense satellites Ground support & engine testing Launch vehicles Military aircraft testing Unmanned aerial vehicles 	<ul style="list-style-type: none"> Launchpad Support Engine test stands Leak decay In-laboratory R&D Energy management Emissions management HVAC 	<ul style="list-style-type: none"> Aviation & suborbital aircraft Space heritage flight Commercial and military satellites Launch Vehicles Test stand applications Ground and engine testing 	<ul style="list-style-type: none"> Ground support systems Aircraft engine test stands Hydraulic test stands Launch vehicles 	<ul style="list-style-type: none"> Commercial & defense satellites Launch Vehicles Aircraft systems / Avionics Subsea systems
FEATURES	FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> Compact design Digitally compensated 1K PSI line pressure Lightweight, rugged welded SST design 	<ul style="list-style-type: none"> 2.5" WCD thru 200 PSID Up to 5K PSI line pressure options Unidirectional & bidirectional outputs Wet/wet design Compact size 	<ul style="list-style-type: none"> Digital correction provides optional 0.05% FSO accuracy Extremely lightweight <8 oz. (0.2 kg) Line pressure shift <1% FSO 	<ul style="list-style-type: none"> High static line option to 10K PSI True wet-wet design High accuracy $\pm 0.3\%$ FSO Compact, rugged design Meets MIL-STD-810F shock & vibration 	<ul style="list-style-type: none"> Compact design Digitally compensated 5,000 PSI line pressure option Submersible housing rated to 23K FT WC optional
RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
1 PSID thru 500 PSID	2.5" WCD thru 200 PSID	0-1 thru 0-500 PSID	0-30 thru 0-7,500	2.5" WCD thru 100
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
$\pm 0.20\%$, $\pm 0.10\%$ or $\pm 0.05\%$	$\pm 0.5\%$ STD	$\pm 0.10\%$, $\pm 0.05\%$	$\pm 0.3\%$	$\pm 0.1\%$ or $\pm 0.05\%$
OUTPUT	OUTPUT	OUTPUT	OUTPUT	OUTPUT
4-20 mA, Vdc, mV/V, CANbus, USB or RS485	(216) 0 to 5 Vdc, 0 to 10 Vdc (316) 4-20 mA	0-5 Vdc, 0 to 10 Vdc digitally corrected	Vdc or 4-20 mA	Vdc
PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT
1/4" NPT (F)	1/4" NPT (F)	AS5202-04	AS5202-04	AS4395E04
ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
6 PIN Bendix PTIH-10-6P	36" PVC jacketed, 18 AWG, 4 conductor cable (or equivalent)	PTIH-10-6P	PTIH-10-6P or MIL D38999	PTIH-10-6P, MIL D38999, or XSJJ-4-BCR
WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS
316 SST	316 SST (Hastelloy available)	316L SST	316L SST	316 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.



SUB SEA DIFFERENTIAL
7540



DUAL PRESSURE & TEMPERATURE
7800/7880



CRYO/HIGH-TEMPERATURE PRESSURE/TEMPERATURE
7710-7790



SUB SEA PRESSURE / SUBSEA TEMPERATURE
7500 / 7850

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> • Mini-sub hydraulic systems • Submarine propulsion systems • Subsea oil well head pressure 	<ul style="list-style-type: none"> • Propulsion systems • On board vehicle systems • Engine test stands • Fuel testing 	<ul style="list-style-type: none"> • LNG (Liquefied natural gas) processing, transportation & storage • CNG (Compressed natural gas) • High temp gas measurement • Reactor cooling • Manifolds, propulsion systems • Military & defense programs • Test stands 	<ul style="list-style-type: none"> • Ground support systems • Aircraft engine test stands • Hydraulic test stands • Launch vehicles • Military and commercial ROV • Subsea oil and gas • Naval exploration
FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> • Depth rated to 30K ft WC • Compact, seawater rated • High accuracy • High line pressure option • High shock & vibration rated 	<ul style="list-style-type: none"> • Compact size & lightweight • Shock & vibration rated to MIL-STD-810 • (7800) Temperature transducer • (7880) Pressure & temperature • Platinum RTD 	<ul style="list-style-type: none"> • -320 °F to +70 / Rated to +350 °F • Lightweight, 8 oz • 2000 to 5000 PSI system pressure • Shock & vibration to MIL-STD-810 	<ul style="list-style-type: none"> • Depth rated to 30K ft WC • High accuracy up to <math>\pm 0.3\%</math> FSO, $\pm 0.1\%</math> FSO, 0.05% FSO$ • Compact, sea water rated • Manufactured to MIL-spec requirements ANSI-Z540-1 • Up to 0.5 second temperature response time • Platinum RTD • 2000 PSI system pressure
RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
0-30 thru 0-7,500	Pressure: 0-15 thru 0-15K Temp: +70 °F to +500 °F	Pressure: 0-150 thru 0-15K Temp: -320 °F to +500 °F	0-50 thru 0-20K, -100 °F to +392 °F (-73 °C to +200 °C)
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
$\pm 0.3\%$ FSO, $\pm 0.10\%</math> FSO or \pm 0.05\%</math> FSO$	Pressure: $\pm 0.3\%$ or $\pm 0.1\%</math>Temp: \pm 1.0\%$	Pressure: $\pm 0.3\%$ or $\pm 0.1\%</math>Temp: \pm 3.0\% or \pm 1.0\%$	Pressure: 0.3%, $\pm 0.1\%$ or $\pm 0.05\%</math>Temp: \pm 3.0\% or \pm 1.0\%$
OUTPUT	OUTPUT	OUTPUT	OUTPUT
Vdc or 4-20 mA	mV/V, Vdc or 4-20 mA	Vdc or 4-20 mA	Vdc or 4-20 mA
PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT
AS4320-04	AS4395E04	AS4395E04 with temperature probe	AS4320-04 / AS4395E04 with temperature probe
ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
Subsea rated options	PTIH-10-6P or MIL D38999	PTIH-10-6P or MIL D38999	(7500) Seacon XSJJ-2 BCR Style (7850) XSJJ-2-BCR (Seacon 2 Pin)
WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS
316L SST	17-4 SST	17-4 SST	(7500) 17-4 PH SST (7850) 316 SST



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