



SENSOR SOLUTIONS FOR OIL & GAS FROM TE CONNECTIVITY

The energy market continues to face new challenges with deeper drilling, higher temperatures and higher pressures. TE Connectivity's (TE) sensor technologies with advanced electronics, materials, and design packages provide safe, reliable, and accurate data measurements—all while enduring some of the harshest application environments on earth. By combining application expertise and global hazardous location certifications, our broad portfolio of standard designs and custom packages are helping to improve performance and reliability for the oil & gas industry.

SENSOR SOLUTIONS

- PRESSURE
- DIFFERENTIAL PRESSURE
- TEMPERATURE
- POSITION
- LEVEL

QUALITY STATEMENTS

- ISO 9001:2008
- ABS/DNV/GL
- CE Certified
- ROHS Compliant
- EN 60068-2-27, EN 60068 2-6, 60068-2-64, and IEC 68-2-32
- IEC 61508 (SIL2)

HAZARDOUS AREA APPROVALS

EXPLOSIONPROOF

- Class I and II Division I
- ATEX / IECEx Exd
- CRN ASME B31.3
- ANSI/ISA 12.27.01

INTRINSICALLY SAFE

- Class | Division |
- ATEX / IECEx Exd
- CRN ASME B31.3
- ANSI/ISA 12.27.01

NON-INCENDIVE

- Class I Division 2
- ATEX / IECEx Exd
- CRN ASME B31.3
- ANSI/ISA 12.27.01









OIL & GAS APPLICATION SOLUTIONS

Wellhead Instrumentation

- Robust, accurate sensor technologies
- Excellent price to performance ratio
- Explosionproof, intrinsically safe and non-incendive options from 1 psi to 20,000 psi
- Compact, yet rugged
- Low current consumption
- Excellent accuracy over wide temperature span

Pipeline Monitoring

- Differential pressure transmitters available with 1,500 psi line pressure and 10 psid
- Position transmitters manufactured for pipeline mapping via pipeline pigs
- Differential transmitters manufactured for gas odorization systems
- Pressure transients monitored along pipelines confirm pipe integrity

Gas Compression

- Variety of approvals, process connections, and electrical connections
- Compound and bidirectional measurement ranges
- All 316L stainless steel material standard
- Withstand high shock and vibration

Storage Tanks & Level Measurement

- Monitor liquid and gas level via submersible, gage or differential transmitters
- Explosionproof, intrinsically safe and non-incendive options
- Cost effective
- No tank modification required
- ABS/DNV/GL certified instrumentation for marine systems

Offshore

- Class I Division 1 explosionproof options for gage, absolute and differential pressures
- Alloy 718 and 316L SS sensors available (NACE compliant)
- Stainless steel or coated housings withstand salt spray
- Explosionproof ratings up to 20,000 PSI for deep well applications
- Wide operating temperature

Sub Sea

- Position transmitters for subsea controls and transformers
- Down-hole position transmitters feature a small diameter and high temperature capability
- Highly accurate pressure and temperature transmitters design for test equipment



SENSOR SOLUTIONS FOR OIL & GAS

PRESSURE TRANSMITTERS

Explosionproof



	AST4600
Туре	Gage, sealed gage, compound, absolute
Pressure Range	0 - 1 to 20K psi
Output / Span	0.5-4.5V [Ratiometric], 1-5V, 1-6V, 4-20mA
Unique Features	 Available with 316L, alloy C276, or alloy 718 materials Suitable for high shock and vibration Rugged design withstands harsh environments
Accuracy	±0.25% FSO (<±0.5% BFSL 7,500 to 20,000 PSI)
Operating Temp.	-40°C to 85°C
Dimensions (mm)	Body diameter: 0.875" Overall length: 3.64"
Typical Applications	SCADA/RTU, well sites, offshore equipment, hydraulic controls
Agency Approvals	CSA Class I/II Div I, ATEX/IECEx

Exd, ABS/DNV/GL, CE



AST46HA

Gage, sealed gage, compound, absolute

0 - 1 to 20K psi

0.5-4.5V [Ratiometric], 0-5V, 1-5V, 4-20mA, 0-10V, 1-6V, 1-10V

- Available with 316L, alloy C276, or alloy 718 materials
- Excellent accuracySuperb temperature performance

<±0.1% BFSL

-40°C to 85°C

Body diameter: 1" Overall length: 4.3"

SCADA/RTU, well sites, offshore equipment, hydraulic controls

CSA Class I/II Div I, ATEX/IECEx Exd, ABS/DNV/GL, CE



AST46DS

Gage, sealed gage, compound, absolute

up to 20K psi

1-5V (3 wire + case connection), 4-20mA (loop powered + case connection)

- Available with 316L, alloy C276, or alloy 718 materials
 Display pressure units or output signal
- High quality, NEMA 4X case and finish withstands salt spray and outdoor environments

<±0.25% BFSL

-40°C to 85°C

Height: 5.69" Depth: 6.535" Width: 4.173"

SCADA/RTU, well sites, offshore equipment, hydraulic controls

CSA Class I/II Div I, ATEX/IECEx Exd, ABS/DNV/GL, CE

PRESSURE & TEMPERATURE SENSOR

Explosionproof



	ASI40PI
Туре	Gage, sealed gage, compound, absolute
Pressure Range	0 - 1 to 20K psi
Output / Span	0.5-4.5V [Ratiometric], 0-5V, 1-5V, 1-6V, 0-10V, 1-10V, 4-20 mA
Unique Features	 Measure pressure & temperature from a single transmitter Leading sensor technology for accurate, long term stability CRN B31.3 Available
Accuracy	±0.25% FSO (<±0.5% BFSL 7,500 to 20,000 PSI)
Operating Temp.	-40°C to 85°C
Dimensions (mm)	Body diameter: 1" Overall length: 4.8"
Typical Applications	SCADA/RTU, well sites, offshore equipment, hydraulic controls
Agency Approvals	CSA Class I/II Div I, ATEX/IECEx Exd, ABS/DNV/GL, CE

PRESSURE SWITCH

Explosionproof



AST46SW High accuracy switch System: up to 20K psi, switch: up to 10K psi

• Single pole, double throw with factory set hysteresis • 316L, Hastelloy, and Alloy 718 available

-40°C to 85°C

Body diameter: 1" Overall length: 4.8"

SCADA/RTU, well sites, offshore equipment, hydraulic controls

CSA Class I/II Div I, ATEX/IECEx Exd, ABS/DNV/GL, CE



DIFFERENTIAL PRESSURE (DP) TRANSDUCERS

Explosionproof



	AST53ED, AST53EN	AST54ED, AST54EN
Туре	Differential	Differential
Pressure Range	0 - 1 to 10 psi	0 - 10 to 5K psi
Output / Span	0.5 - 4.5 V [Ratiometric], 0 - 5 V, 1 - 5 V, 4 - 20 mA	0.5 - 4.5 V [Ratiometric], 0 - 5 V, 1 - 5 V, 4 - 20 mA
Unique Features	 Wide operating temperature Full line pressure on either side without zero shifts Hazardous location approvals 	 Wide range of pressures available Full line pressure on either side without zero shifts Hazardous location approvals
Accuracy	±0.25% FSO	1% TEB
Operating Temp.	-40°C to 85°C	-40°C to 85°C
Dimensions (mm)	Application dependent	Application dependent
Typical Applications	Filter monitoring, flow measurement, tank level measurement	Filter monitoring, flow measurement, tank level measurement
Agency Approvals	CSA Class I/II Div I and II, ATEX/IECEx Exd/Exn, ABS/DNV/GL, CE	CSA Class I/II Div I and II, ATEX/IECEx Exd/Exn, ABS/DNV/GL, CE

AL A

PRESSURE TRANSMITTERS

Non-Incendive



	A314300	
Туре	Gage, sealed gage, compound, absolute	
Pressure Range	0 - 25 to 20K psi	
Output / Span	0.5 - 4.5 V [Ratiometric], 1 - 5 V, 1 -6 V, 4 - 20 mA	
Unique Features	 Available with 316L, alloy C276, or alloy 718 materials Low current consumption options Low power options High proof and burst pressure 	
Accuracy	±0.25% FSO	
Operating Temp.	-40°C to 85°C	
Dimensions (mm)	Application dependent	
Typical Applications	Compressors, well sites, ships, factory automation, SCADA equipment, offshore equipment	
Agency Approvals	UL/CSA Class I Div II, ATEX/ IECEx Exia/Exn, CCOE, CNEx, ABS/DNV/GL, CE	



AST43LP Gage, sealed gage, compound, absolute 0 - 1 to 15 psi 0.5 - 4.5 V [Ratiometric], 1 - 5 V, 1 -6 V, 4 - 20 mA • Available with 316L, alloy C276, or alloy 718 materials • Low current consumption options • Low power options

±0.25% FSO

-40°C to 85°C Application dependent

Compressors, well sites, ships, factory automation, SCADA equipment, offshore equipment

UL/CSA Class I Div II, ATEX/ IECEx Exia/Exn, CCOE, CNEx, ABS/DNV/GL, CE

Industrial



AST4000 Gage, sealed gage, compound

0 - 25 to 10K psi

0.5 - 4.5 V [Ratiometric], 1 - 5 V, 1 - 10 V, 4 - 20 mA, 0.5 - 2.5 V

- Four standard sensor material options • Rugged construction
- 100 V/m EMI/RFI protection
- Semi-custom designs available

±0.5% FSO

-40°C to 85°C

Application dependent

Water, hydraulic equipment, HVACR, industrial controls

UL/cUL508, ABS/DNV/GL, CE



PRESSURE TRANSMITTERS

Intrinsically Safe



Туре	Gage, sealed gage, compound, absolute	
Pressure Range	0 - 25 to 20K psi	
Output / Span	0.5 - 4.5 V [Ratiometric], 1 - 5 V, 1 - 6 V, 4 - 20 mA	
Unique Features	 Available with 316L, alloy C276, or alloy 718 materials Low current consumption options Low power options High proof and burst pressure 	
Accuracy	±0.25% FSO	
Operating Temp.	-40°C to 85°C	
Dimensions (mm)	Application dependent	
Typical Applications	Compressors, well sites, ships, factory automation, SCADA equipment, offshore equipment	
Agency Approvals	UL/CSA Class I Div I, ATEX/IECEx Exia/Exn, CCOE, CNEx, ABS/DNV/GL, CE	



AST44LF

Gage, sealed gage, compound, absolute

0 - 1 to 15 psi

1 - 5 V, 1 - 6 V, 4 - 20 mA

Available with 316L, alloy C276, or alloy 718 materials
 Low current consumption options

Low power options

±0.25% FSO

-40°C to 85°C

Application dependent

Compressors, well sites, ships, factory automation, SCADA equipment, offshore equipment

UL/CSA Class I Div I ATEX/IECEx Exia/Exn, CCOE, CNEx, ABS/DNV/GL, CE

PRESSURE TRANSMITTERS

Intrinsically Safe





LEVEL SENSORS

Intrinsically Safe Hydrostatic Submersible





AST4520

Gage, absolute

0 - 1 to 100 psi

1 - 5 V, 4 - 20 mA

• Intrinsically safe ratings

- Material options including: 316L, alloy C276, and PVDF
 Low power options
- High quality cable options

±0.25% FSO

-40°C to 80°C

, pump

rch

Application dependent

Diesel tanks, chemical tanks, water tanks

UL/CSA Class I Div I, ATEX/ IECEx Exia, ABS/DNV/GL, CE



AST4530

Gage, absolute

0 - 2.5 to 15 psi

0.5 - 4.5 V [Ratiometric], 1 - 5 V, 4 - 20 mA

- Intrinsically safe ratings
- Material options including: 316L, alloy C276, and PVDF
 Low power options
- High quality cable options

±0.25% FSO

-40°C to 60°C

Application dependent

Diesel tanks, chemical tanks, water tanks

UL/CSA Class I Div I, ATEX/ IECEx Exia, ABS/DNV/GL, CE

WATER LEVEL SENSORS

Non-Submersible Pressure Transducers



	KPSI 27, 28
Accuracy	±0.5%, ±0.25%
Options	IP68 submersible option
Range	1 - 300 psi (Vented) 5 - 2000 psi (Sealed) 15 - 2000 psi (Absolute)
Max. Over-range	2X FS
Output	4-20 mA, 0-5 VDC, 0-2.5 VDC 0-4 VDC, 0-10 VDC, 1.5-7.5 VDC
Operating Temp.	-20°C to 60°C
Dimensions (mm)	Ø25.4 x 86.6
Typical Applications	Line pressure monitoring, pump and lift stations control, tank level monitoring, underwater resea
Agency Approvals	CE, WEEE, RoHS, UL and FM (Intrinsically safe)



KPSI 30 ±0.1%

IP68 submersible option

2 - 300 psi (Vented) 5 - 500 psi (Sealed, absolute)

2X FS

4-20 mA, 0-5 VDC, 0-2.5 VDC 0-4 VDC, 0-10 VDC, 1.5-7.5 VDC

-20°C to 60°C

Ø25.4 x 86.6

Line pressure monitoring, pump and lift stations, pump control, tank level monitoring, underwater research

CE, WEEE, RoHS, UL and FM (Intrinsically safe)



SENSOR SOLUTIONS FOR OIL & GAS

WATER LEVEL SENSORS

Analog 1" Bore

Accuracy

Range

Output

Typical

Applications

Agency Approvals

Max. Over-range

Operating Temp. Dimensions (mm)



MEAS KPSI 700, 710, 720

±1.00%, ±0.50%, ±0.25% FSO

2.3 - 700 ft H₂O (Vented) 10 - 700 ft H₂O (Sealed) 35 - 700 ft H₂O (Absolute)

4 - 20 mA, 0 - 5 VDC, 0 - 2.5 VDC, 0 - 4 VDC, 0 - 10 VDC, 1.5 - 7.5 VDC

Groundwater monitoring, surface water monitoring, oceanographic research, pump control, life stations, landfill leachate

Custom ranges from:



MEAS KPSI 730, 735 ±0.10%, ±0.05% FSO

 $\begin{array}{l} \mbox{Custom ranges from:} \\ \mbox{5 - 700 ft H}_20 \mbox{(Vented: KPSI 730)} \\ \mbox{0 - 5 ft H}_20 \mbox{ to 0 - 700 ft H}_20 \\ \mbox{(Sealed, Absolute: KPSI 730)} \\ \mbox{6 - 700 ft H}_20 \mbox{(Vented KPSI 735)} \end{array}$

2X FS

4 - 20 mA, 0 - 5 VDC, 0 - 2.5 VDC, 0 - 4 VDC, 0 - 10 VDC, 1.5 - 7.5 VDC

-20°C to 60°C

Ø25.4 x 86.6

Groundwater monitoring, surface water monitoring, oceanographic research, pump control, life stations, landfill leachate

CE, WEEE, RoHS, UL and FM (Intrinsically safe)

Analog 0.75" Bore



MEAS KPSI 320, 330, 335, 342

±0.10%, ±0.05% FSO (KPSI 330, 335) ±0.25% FSO (KPSI 320) ±0.25% FS TEB (KPSI 342)

Custom ranges from: $5 - 700 \text{ ft} \text{ H}_20 \text{ (Vented: KPSI 320, 330, 335)}$ $10 - 700 \text{ ft} \text{ H}_20 \text{ (Vented KPSI 342)}$ $0 - 5 \text{ ft} \text{ H}_20 \text{ to } 0.700 \text{ ft} \text{ H}_20$ (Sealed: KPSI 330, 342) $10 - 700 \text{ ft} \text{ H}_20 \text{ (Sealed: KPSI 320)}$ $35 - 700 \text{ ft} \text{ H}_20 \text{ (Absolute: KPSI 320, 330, 342)}$

2X FS

4- 20 mA, 0 - 5 VDC, 0 - 2.5 VDC, 0 - 4 VDC, 0 - 10 VDC, 1.5 - 7.5 VDC (KPSI 320, 330, 335), 4 - 20 mA (KPSI 342)

-20°C to 60°C (KPSI 320, 330, 335) -20°C to 85°C (KPSI 342)

Ø19.0 x 151.0

Groundwater monitoring, surface water monitoring, oceanographic research, pump control, lift stations, landfill leachate, tailrace and forebay monitoring

CE, WEEE, RoHS, UL and FM (Intrinsically safe) (KPSI 320, 330, 335), CE, WEEE, RoHS (KPSI 342)

WATER LEVEL SENSORS

2X FS

-20°C to 60°C

Ø25.4 x 86.6

Non-Fouling Flexible Diaphragm

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CE, WEEE, RoHS, UL and

FM (Intrinsically safe)

	MEAS KPSI 705
Accuracy	±0.25% FSO
Options	Optional ETFE
Range	Custom ranges from 6 - 115 ft H2O
Max. Over-range	2X FS
Output	4 - 20 mA, 0 - 5 VDC, 0 - 2.5 VDC, 0 - 4 VDC, 0 - 10 VDC, 1.5 - 7.5 VDC
Operating Temp.	-20°C to 60°C
Dimensions (mm)	Ø25.4 x 86.6
Typical Applications	Wastewater, lift stations, pump control, slurry tank liquid level, tank level

Agency Approvals

CE, WEEE, RoHS, UL and FM (Intrinsically safe)



MEAS KPSI 745, 750
±0.25% FSO
Optional standoff (KPSI 745)
Custom ranges from 10 - 115 H2O
2X FS
4 - 20 mA, 0 - 5 VDC, 0 - 2.5 VDC, 0 - 4 VDC, 0 - 10 VDC, 1.5 - 7.5 VDC
-20°C to 60°C
KPSI 745: Ø88.9 x 279.4 (With standoff) Ø88.9 x 253.3 (Without standoff) KPSI 750: Ø104.1 x 279.4

Wastewater, lift stations, pump control, slurry tank liquid level, tank level

CE, WEEE, RoHS, UL and FM (Intrinsically safe)



WATER LEVEL SENSORS

OEM



	MEAS LTB, LTR Series
Accuracy	±0.25% FSO
Options	Optional lightning protection
Range	0 - 11.5, 23.1, 34.6, 69.2, 115.4 ft H2O Custom ranges available
Max. Over-range	2X FS
Output	4 - 20 mA, 0 - 5 VDC, 0 - 10 VDC, 0 - 2.5 VDC, 0 - 4 VDC, 1.5 - 7.5 VDC
Operating Temp.	-20°C to 60°C
Dimensions (mm)	LTB: Ø104.1 x 206.5 LTR: 287.1 with overmold conduit connection, 253.5 with gland seal conduit connection
Typical Applications	Pump control, tank liquid level, landfill leachate monitoring, construction bypass pumping, dewatering, lift station monitoring, submersible tank liquid level, liquid line pressure, slurry tank liquid level, wastewater
Agency Approvals	CE, WEEE, RoHS, with optional UL, CUL, and FM (Intrinsically safe)



MEAS LTA, LT Series

±0.25% FSO Optional lightning protection

0 - 1 psi up to 0 - 300 psi Custom ranges available

2X FS

4 - 20 mA

-20°C to 60°C

LTA: Ø25.4 x 93.0 LT: Ø25.4 x 170.5 (Dependent on fitting)

Pump control, tank liquid level, landfill leachate monitoring, construction bypass pumping, dewatering, lift station monitoring, submersible tank liquid level, liquid line pressure, slurry tank liquid level, wastewater

CE, WEEE, RoHS, with optional UL, CUL, and FM (Intrinsically safe)

TEMPERATURE SENSORS

RTDs

RIDs			
	AST8000	MEAS Stator Sensors	MEAS Bearing Sensors
Package	• 316L stainless steel	• TPE / CPME • G11 epoxy glass laminated, Class F or H	 Copper alloy tip Stainless steel, isolated stainless steel or epoxy glass case
Туре	Platinum RTD based temperature transmitter	• RTD • Rigid flat, slot sensor • Cable or leadwire options	• RTD • Rigid sheath • Tip sensitive • Cable / leadwire options
Unique Features	 Compact ruggedized package High Withstanding Pressure NAMUR NE 43 Faults levels 	• Extended sensitive length • Single or dual elements • Calibration available	 Cut-to-length Copper tip for fast time response Assemblies with fluid seal and spring loading Single or dual elements
Accuracy	RTD: Class A	RTD: Class A, B according to IEC60751	RTD: Class A, B, C according to IEC60751
Operating Temp.	-50 to 200°C	Max. temperature: Class F, 155°C Max. temperature: Class H, 180°C Available up to 200°C	Sheath specific, up to 250°C
Dimensions (mm)	Application dependent	Custom dimensions available	Custom lengths Standard sheath diameters: 4.78, 5.46, 6.35
Typical Applications	Gearbox oil temp., mud & fracking pumps, hydraulic oil temp., oil well heads	Monitor temperature between stator coils, electric motors, generators	Bearing monitoring, electric motors, generators



LINEAR POSITION TRANSDUCERS

Cable Extension Transducers



	MEAS PT8000
Range	0 - 2 to 0 - 60 inches
Output	Voltage divider, 0 - 5 VDC, 0 - 10 VDC, 4 - 20 mA, incremental ∕ absolute encoder, CAN bus, DeviceNet™, RS-232
IP Rating	IP67, IP68
Enclosure	Aluminum or stainless
Accuracy	±0.04% to ±0.25%
Unique Features	 Heavy duty, submersible Designed for extreme industrial and marine environments CSA, CENELEC certification for hazardous area applications High accuracy, high acceleration Free-release proof with VLS option M12 and DEUTSCH[™] connector options
Operating Temp.	-40°C to 90°C
Dimensions (mm)	90 x 140 x 135
Typical Applications	Steel mills, lumber and paper mills, factory automation, die- casting, injection molding, mobile construction and mining



MEAS PT9000

0 - 75 to 0 - 1700 inches

Voltage divider, 0 - 5 VDC, 0 - 10 VDC, 4 - 20 mA, incremental / absolute encoder, CAN bus, DeviceNet™, RS-232

IP67, IP68

Aluminum or stainless

±0.04% to ±0.25%

- Heavy duty, submersible
- Proven workhorse for long stroke applications
- Designed for extreme industrial and marine environments
- CSA, CENELEC certification for hazardous area applications
- Free-release proof with VLS option
- M12 and DEUTSCH $^{\rm \tiny M}$ connector options

-40°C to 90°C

200 x 135 x 125

Mobile hydraulic boom position, water resource management, mining and tunnel boring equipment, telescoping mechanism position, theatre stage control

LINEAR POSITION TRANSDUCERS

Inductive / Absolute



CAN bus and DeviceNet is a trademark.



LINEAR POSITION TRANSDUCERS

Inductive / Absolute

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	MACRO SSI/R
Package	Alloy 625
Linearity	±0.10% of range
Excitation	AC or DC operated
Output	AC or 4-20 mA loop digital CAN bus available
Range	±1.0 to ±10.0 inches
Unique Features	 Operating pressure to 5,000 psi (7,500 psi proof) Seawater submersible IP68 Standard Seacon connector Axial or radial connection
Operating Temp.	-40°C to 80°C
Diameter (mm)	23.9
Typical Applications	Off-shore drilling platforms, pipeline monitoring, choke mooring cables, extensometers, pulp and paper mills

4 to 20mA



MEAS PCI-650

Stainless Steel

±1%

12 to 28 VDC

4 to 20mA

11, 40, 70, 85, 100mm

ATEX certification

• Vibration and shock resistant

100 bar operation

• Compatible with refrigerants (Incl. ammonia) and compressor oils

-40°C to 120°C

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valves,

Refrigerant compressor capacity control valves, refrigerant compressor oil systems

INSTRUMENTATION

			Rotational / Industrial Grade
	MACRO LVC-4000	MACRO LVC-4500	MEAS RT9420
Package	DIN rail mount	DIN rail mount	Aluminum or stainless IP67, IP68
Supply	9 to 30 VDC	9 to 30 VDC	-
Output	RS-485, DC voltage, and 4-20 mA	RS-485, DC voltage, and 4-20 mA	4 - 20 mA
Operating Temp.	-20°C to 75°C	-20°C to 75°C	-40°C to 90°C
Unique Features	 Push-button calibration Digital RS-485 interface Master / slave excitation synchronization (Up to 16 channels) Supports all standard AC LVDTs, RVDTs, and VR half-bridge sensors 	 Push-button calibration Diff / sum ratiometric conditioning Digital RS-485 interface Master / slave excitation synchronization (Up to 16 channels) Supports all standard AC LVDTs, RVDTs, and VR half-bridge sensors 	 Industrial grade rotational position sensor Absolute rotary position up to 50 turns Hazardous Area Certification CSA, CE
Dimensions (mm)	114.5 x 99 x 22	114.5 x 99 x 22	Ø115 x 60
Typical Applications	Gas and steam turbine controls, automotive test instrumentation, factory automation	Gas and steam turbine controls, automotive test instrumentation, factory automation	Valve control, airport passenger loading bridge, water management, factory automation



POSITION SENSORS

te.com/oil-gas-sensors

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TE CONNECTIVITY

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