

TE Connectivity (TE) is a global technology leader, providing connectivity and sensor solutions essential in today's increasingly connected world. With the acquisition of Measurement Specialties (MEAS), a global designer and manufacturer of sensors and sensor-based systems, TE is one of the largest sensor companies in the world. Our broad portfolio of sensor technologies is designed for a wide range of applications. We collaborate with engineers to help transform concepts into creations—redefining what's possible using intelligent, efficient and high-performing TE products and solutions proven in harsh environments.



SENSOR SOLUTIONS

- PRESSURE
- TEMPERATURE
- VIBRATION
- WATER LEVEL

TE Sensor Solutions leads the water-resources monitoring market with long standing industry experience in the design and manufacture of water-level sensors and systems. Our expertise in media-isolated pressure sensors provides our customers with unique advantages in creative product development and consistent product performance.

KPSI and TruBlue water-level transducers are available in custom ranges and a wide choice of accuracies, materials, and cabling. With your choice of analog or digital output, our sensors are easily adapted to any data system. Or, use self-powered units with on-board memory for remote monitoring or long term deployment.







ENVIRONMENTAL MONITORING APPLICATION SOLUTIONS

TE Sensor Solutions supports customers in water level markets, including government agencies, research institutions, academia, engineers and consultants, contractors, integrators, distributors, and OEMs. Highly accurate and precise, rugged and reliable instruments meet the most demanding requirements for monitoring surface waters, ground waters, estuary and ocean waters, and for managing drinking water, wastewater, storm water, landfill leachate, managing agricultural systems and hydropower systems. Our broad technology portfolio and easy-to-use products make us the supplier of choice for professionals responsible for monitoring natural waters or managing water processes.

WATER USAGE

- Dam operations
- Landfill leachate level
- Line pressure monitoring
- Pump and lift stations
- · Pump control
- Submersible pump monitoring
- · Tank level monitoring

WATER RESOURCE

- Aquaculture
- Flood warning and storm surge monitoring
- Groundwater monitoring
- Oceanographic research
- Remediation
- Slug test and aquifer characterization
- Stream gauging
- Surface water monitoring
- Tide gauging



PRESSURE

Analog Pressure Sensors



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

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

Operating Temp -20°C to 60°C Dimensions (mm) 25.4 x 86.6

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

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

25.4 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)

TEMPERATURE

Digital Temperature Sensors



KPSI 380

Accuracy ±0.1°C

-20°C to 60°C Range

Connection Open port nosepiece

SDI-12, RS-485 Output

-20°C to 60°C **Operating Temp**

Dimensions (mm) 19.0 x 127.0

Typical Apps Groundwater monitoring, surface water monitoring, storm water, dam operations and stream gauging

VIBRATION

Submersible Accelerometers



8042

Package Titanium

Stud mount Туре

Sensitivity (mV/g) 500, 100, 10

Unique Features • Industrial applications • Submersible

• IP68, >100 meters

• 16kHz bandwidth

-20°C to 80°C

Operating Temp

Dimensions (mm) 22.23 x 48.26

Typical Apps Submersible pump monitoring, underwater research

WATER LEVEL

Water Level Data Loggers



TruBlue 555, 575 Baro, 585 CTD

Accuracy ±0.05% FS TEB (TruBlue 555, 575, 585) 1% of reading or 20 μ s/cm (TruBlue 585)

0 - 5 ft H_2O to 0 - 700 ft H_2O (TruBlue 555, 585) Range

8 - 16 psia (TruBlue 575) 5 - 200,000 µs/cm (TruBlue 585)

3X FS (TruBlue 555, 575, 585) 32 psia (TruBlue 575) Max Over-range

RS-485 / SDI-12 Output

8 MB **Data Logging**

Memory

0°C to 50°C **Operating Temp** Dimensions (mm) 19 x 390

Typical Apps Groundwater monitoring, surface water monitoring,

oceanographic research.

barometric pressure monitoring



TruBlue 255 Level

0.05% FS TEB

0-658 ft H₂O

3X FS

RS 485

8 MB or 56 MB

-20°C to 80°C

19 x 222

Flood and storm monitoring, wave studies and rapid sampling, stream and stage gauging, slug and pump test, aquifer characterization



TruBlue 275 Baro

0.05% FS TEB

8-16 psia

3X FS

RS 485

8 MB or 56 MB

0°C to 50°C

19 x 222

Barometric pressure monitoring

Digital Level Sensors



KPSI 500

±0.05% FS TEB Accuracy

10 - 230 ft H₂O Range

2X FS Max Over-range

SDI-12 Output

Operating Temp -20°C to 60°C

Dimensions (mm) 25.4 x 197

Typical Apps Groundwater monitoring, surface water monitoring oceanographic research

KPSI 501

±0.01 ft H₂O

10 - 50 ft H₂O

2X FS

SDI-12

-20°C to 60°C

25.4 x 197

Groundwater monitoring, surface water monitoring. oceanographic research



KPSI 353, 355

±0.10% FS TEB (KPSI 353) ±0.05% FS TEB (KPSI 355)

10 - 230 ft H₂O

2X FS

SDI-12

-20°C to 60°C

19 x 243

Groundwater monitoring, surface water monitoring. oceanographic research



KPSI 351

±0.01 ft H₂O

10 - 50 ft H₂O

2X FS

SDI-12

-20°C to 60°C

19 x 243

Groundwater monitoring, surface water monitoring. oceanographic research

WATER LEVEL

Analog Level Sensors-1" Bore



KPSI 700, 710, 720

Accuracy ±0.25%, ±0.50%, ±1.00% FSO

Range Custom ranges from: 2.3 - 700 ft H₂O (Vented) 10 - 700 ft H₂O (Sealed)

35 - 700 ft H₂O (Absolute)

Max Over-range

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

Operating Temp -20°C to 60°C Dimensions (mm) 25.4 x 86.6

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

CE, WEEE, RoHS, UL and FM (Intrinsically Safe) Agency Approvals



KPSI 730, 735

±0.10%, ±0.05% FSO

Custom ranges from:

5 - 700 ft H₂O (Vented: KPSI 730) 0 - 5 ft H₂O to 0 - 700 ft H₂O (Sealed, Absolute: KPSI 730)

6 - 700 ft H₂O (Vented KPSI 735)

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

25.4 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 Level Sensors-0.75" Bore



KPSI 320, 330, 335, 342

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

Custom ranges from: Range

5 - 700 ft H₂O (Vented: KPSI 320, 330, 335) 10 - 700 ft H₂O (Vented KPSI 342) 0 - 5 ft H₂O to 0-700 ft H₂O (Sealed: KPSI 330, 342)

10 - 700 ft H₂O (Sealed: KPSI 320)

35 - 700 ft H₂O (Absolute: KPSI 320, 330, 342)

Max Over-range

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) Output

4 - 20 mA (KPSI 342)

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

19 x 151 Dimensions (mm)

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

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

Agency Approvals CE. WEEE. RoHS (KPSI 342)



KPSI 300DS

±0.50% FSO

Custom ranges from: 700 - 4614 ft 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

19 x 215

Down hole, level control, pump control

CE, WEEE, RoHS

WATER LEVEL

Flexible Diaphragm Level Sensors



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) 25.4 x 86.6

Typical Apps Wastewater, lift stations, pump control,

slurry tank liquid level, tank level



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: 88.9 x 279.4 (with standoff) 88.9 x 253.3 (without standoff)

KPSI 750: 104.1 x 279.4

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

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

OEM Level Sensors



LTA. LT Series

Accuracy ±0.25% FSO

Options Optional lightning protection

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

Max Over-range 2X FS
Output 4 - 20 mA

Agency Approvals

Operating Temp -20°C to 60°C
Dimensions (mm) LTA: 25.4 x 93.0

LT: Ø 25.4 x 170.5 (Dependent on fitting)

Typical Apps

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)

LTB, LTR Series

±0.25% FSO

Optional lightning protection

0 - 11.5, 23.1, 34.6, 69.2, 115.4 ft $\rm H_2O$ Custom ranges available

2X FS

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

-20°C to 60°C

LTB: 104.1 x 206.5

LTR: 11.30" with overmold conduit connection 9.78" with gland seal conduit connection

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)

PRODUCT AND APPLICATION MATRIX	Water Level Data Loggers	Digital Level Sensors	Analog Level Sensors	Flexible Diaphragm Level Sensors	Pressure Sensors	Temperature Sensors	Submersible Accelerometers
Aquaculture	•	•					
Dam Operations		•	•				
Flood Warning and Storm Surge Monitoring	•	•	•				
Groundwater Monitoring	•	•	•				
Landfill Leachate Level			•				
Line Pressure Monitoring					•		
Oceanographic Research	•	•	•				
Pump and Lift Stations			•	•	•		
Pump Control			•	•	•		
Remediation	•	•	•	•			
Slug Testing and Aquifer Characterization	•	•	•				
Stormwater Monitoring	•	•	•				
Stream Gauging	•	•	•			•	
Submersible Pump Monitoring							•
Surface Water Monitoring	•	•	•			•	
Tank Level Monitoring			•	•	•		
Tide Gauging	•	•	•				

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