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PRODUCT LAUNCH

BoT Series SUBMERSIBLE PRESSURE TRANSDUCER BT5-Q30



SUBMERSIBLE PRESSURE TRANSDUCER

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Note: Pricing available on the Extranet

SUBMERSIBLE PRESSURE TRANSDUCER

Press Release

FOR IMMEDIATE RELEASE

Barksdale Introduces High-Performance BoT Submersible Pressure Transducer and Transmitter: Optimized for Versatile Agricultural and Industrial Applications

Los Angeles, CA – October 15, 2024 – Barksdale, a leader in precision instrumentation, proudly announces the launch of its BoT Submersible Pressure Transducer and Transmitter, a robust and reliable solution for measuring water levels in the demanding conditions of agricultural and industrial water applications. Crafted from high-grade stainless steel, this submersible transducer offers superior corrosion resistance, making it the ideal choice for harsh environments such as agricultural wells, water tanks, diesel tanks, and pumping stations.

Designed with flexibility in mind, the Barksdale Submersible Pressure Transducer integrates seamlessly with variable frequency drives (VFD), providing optimal performance in dynamic applications. The submersible pressure transducer is available with removable, vented and unvented cable options, offering cost-effective solutions tailored to various application needs while reducing the overall cost of ownership for users.

Key Features:

- **Stainless Steel Construction:** Ensures durability and corrosion resistance in extreme environments.
- **VFD Compatibility:** Enables efficient integration with VFDs for enhanced performance.
- **Cable Options:** Choose between removable, vented, and unvented cables for greater flexibility and cost efficiency.
- **Narrow .75" diameter** to fit in 1" schedule 120 and schedule 80 PVC to help reduce commissioning costs.
- **Manufactured in the USA**

Applications:

The Barksdale Submersible Pressure Transducer is designed to meet the diverse needs of a wide range of industries, including:

- Agricultural Wells
- Water Tanks
- Diesel Tanks
- Water Towers
- Pumping Stations
- Sewage Treatment Tanks

Whether managing water levels in remote agricultural wells or monitoring pressure in diesel tanks, the Barksdale Submersible Pressure Transducer is the go-to solution for accurate and reliable performance across a variety of industries.

About Barksdale

Barksdale Control Products, a subsidiary of Crane Co., is a global leader in precision fluid control instrumentation. For over 70 years, Barksdale has designed high-quality switches, transducers, regulators and valves for industries like industrial automation, energy, and transportation. Committed to innovation and reliability, Barksdale delivers efficient, custom-engineered solutions that perform in even the toughest environments.

For more information, visit [Barksdale's website](#) or contact your local sales representative.

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BoT Submersible Pressure Transducer and Transmitter

SUBMERSIBLE PRESSURE TRANSDUCER

Brochure

BoT Submersible Pressure Transducer



The BoT Submersible Pressure Transducer is a durable, corrosion-resistant solution made from high-grade stainless steel, designed for measuring water levels and monitoring pressure in agricultural and industrial water applications. With removable, vented, and unvented cable options, it offers flexible, cost-effective solutions that reduce ownership costs. Its seamless integration with variable frequency drives (VFD) ensures optimal performance in dynamic environments.

Features and Benefits

- Allows for VFD and on/off pump control integration
- Narrow .75" diameter to fit in 1" schedule 120 and schedule 80 PVC to help reduce commissioning costs
- Removable Cable
- Vent tube (optional), reducing risk of water intrusion damage
- Removable pressure port cone to remove debris and clogs
- 316L construction with poly jacketed cable
- Manufactured in the USA
- Nose-cone size (mass) can be modified allowing for flexibility for different specific gravities/fluids
- Smoothly rounded nose cone with short 6.5" housing length to prevent sticking on PVC pipe connections during installation



Applications

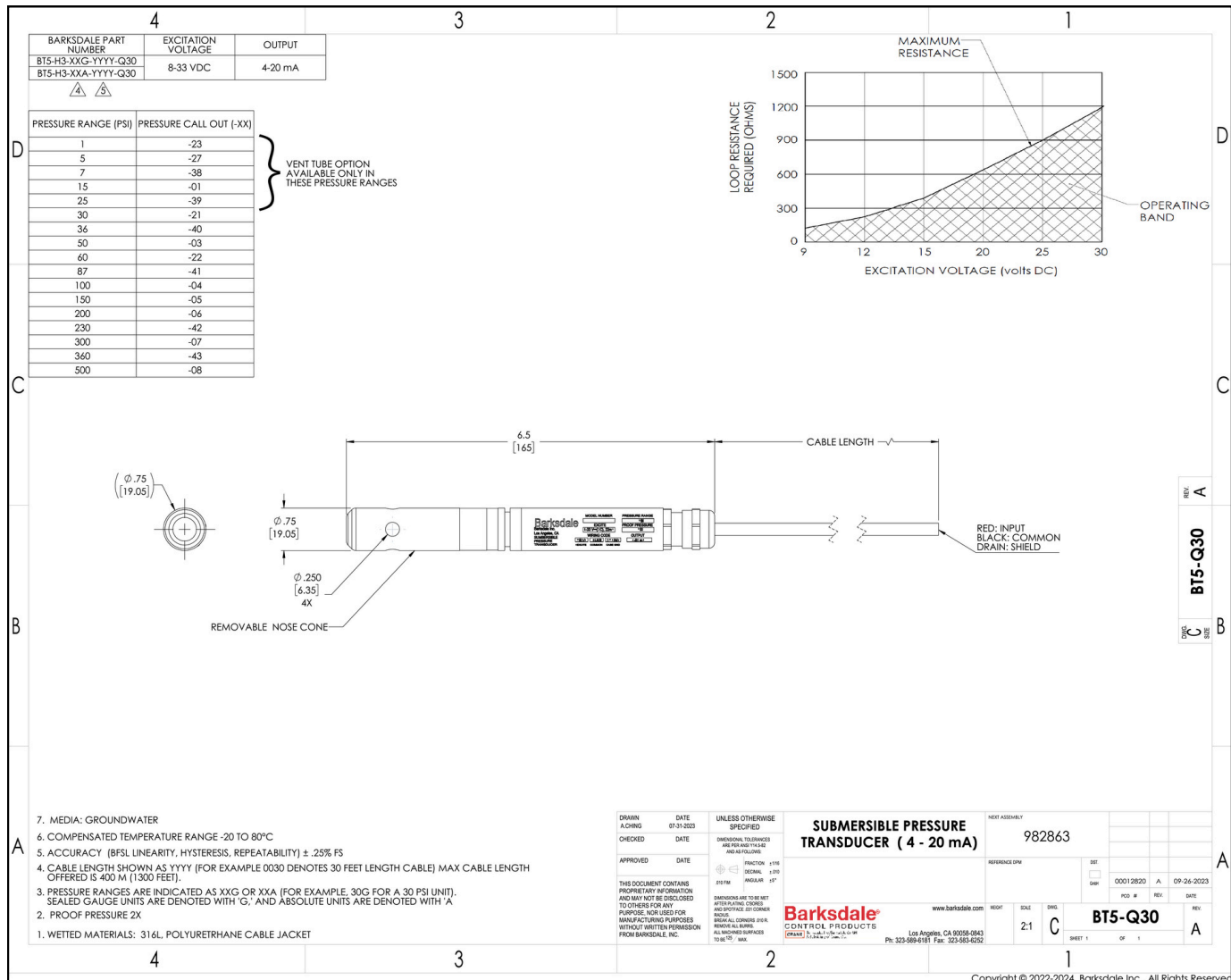
- Agricultural Wells
- Water Tanks
- Diesel Tanks
- Water Towers
- Pumping Stations
- Sewage Treatment Tanks

Control Every Move

BoT Submersible Pressure Transducer

BoT BT5-Q30

Technical Drawing



SUBMERSIBLE PRESSURE TRANSDUCER

Datasheet

Submersible Pressure Transducer

BoT Series

Features

- ▶ Allows for VFD and on/off pump control integration
- ▶ Narrow .75" diameter to fit in 1" schedule 120 and schedule 80 PVC to help reduce commissioning costs
- ▶ Vent tube (optional), reducing risk of water intrusion damage
- ▶ Removable pressure port cone to remove debris and clogs
- ▶ Removable Cable
- ▶ 316L construction with poly jacketed cable
- ▶ Manufactured in the USA
- ▶ Nose-cone size (mass) can be modified allowing for flexibility for different specific gravities/fluids
- ▶ Smoothly rounded nose cone with short 6.5" housing length to prevent sticking on PVC pipe connections during installation



Applications

- ▶ Ground water level monitoring
- ▶ Tank level monitoring
- ▶ Agricultural Wells
- ▶ Water tanks
- ▶ Pumping stations

General Specifications*

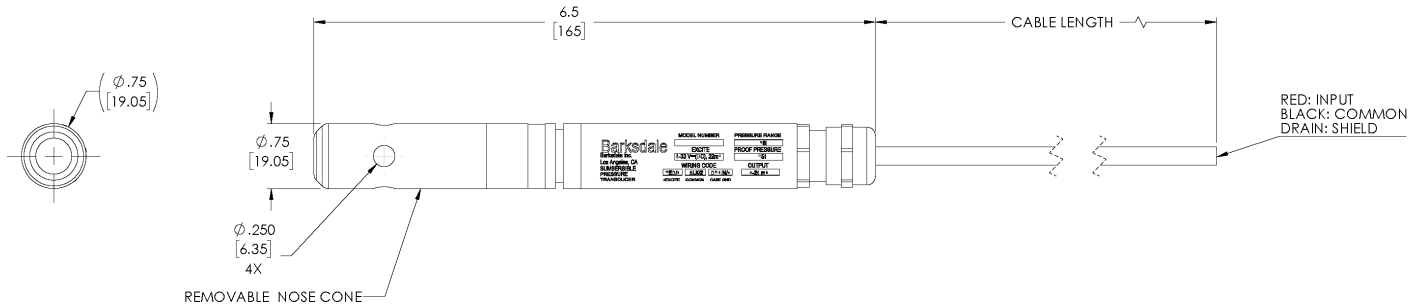
Supply:	8-33 VDC
Output:	4 to 20 mA
Pressure Range:	0 to 500 psi
Operating Temperature:	40 to 212 °F (-40 to 100 °C)
Compensated Temperature Range:	-4 to 176 °F (-20 TO 80°C)
Accuracy (BFSL@25°C)	± .25% FS
Proof Pressure	2X Typical (Consult factory for specific pressure ranges)
Zero Offset	± 1% FSO
Span Offset	± 1% FSO
Long-Term Stability	± 0.2% FSO (per year,typical)
Response Time	< 5 ms

* See product configurator for additional options.

Environmental Specifications

Storage Temperature	-40 to 212 °F (-40 to 100 °C)
Media Temperature	Recommended 32°F to 212°F (0°C to 100°C). Freeze protection required for lower temperature
Wetted Materials	316L, Polyurethane Cable Jacket
Ingress Protection	IP68
Reverse Polarity	Yes
Enclosure	316L
Compliance	REACH, RoHS, CE
Weight	0.8lb (0.4Kg) Approximately
Media Compatibility	Groundwater

Technical Drawing



Product Configurator

Series **BT5** 4-20 mA analog output

Electrical Connection **-H3** PVC Shielded & jacketed #24 AWG Cable

Pressure Range

-27	0-1 psi	0-0.1 BAR
-25	0-5 psi	0-0.35 BAR
-38	0-7 psi	0-0.5 BAR
-01	0-15 psi	0-1 BAR
-39	0-25 psi	0-1.6 BAR
-21	0-30 psi	0-2 BAR
-40	0-36 psi	0-2.5 BAR
-03	0-50 psi	0-3 BAR
-22	0-60 psi	0-4 BAR
-41	0-87 psi	0-6 BAR
-04	0-100 psi	0-7 BAR
-05	0-150 psi	0-10 BAR
-06	0-200 psi	0-15 BAR
-42	0-230 psi	0-16 BAR
-07	0-300 psi	0-20 BAR
-43	0-360 psi	0-25 BAR
-08	0-500 psi	0-35 BAR

Pressure Unit and Type

G	PSI - Sealed gauge pressure (standard)
A	PSI - Absolute pressure

Cable Length **-YYYY** CABLE LENGTH SHOWN AS YYYY (FOR EXAMPLE 0030 DENOTES 30 FEET LENGTH CABLE) MAX CABLE LENGTH OFFERED IS 400 M (1300 FEET)

Options

-SXXY	Special pressure range
-B	Bird cage nose

1. Pressure ranges are indicated as XXG or XXA (for example, 30G for a 30 psi unit) sealed gauge units are denoted with 'G', and absolute units are denoted with 'A'.
 2. Add suffix SXXY for special pressure range calibration. XX= significant digits. Y= number of trailing zeros. Example: 130 psi calibration: add -S131

SUBMERSIBLE PRESSURE TRANSDUCER

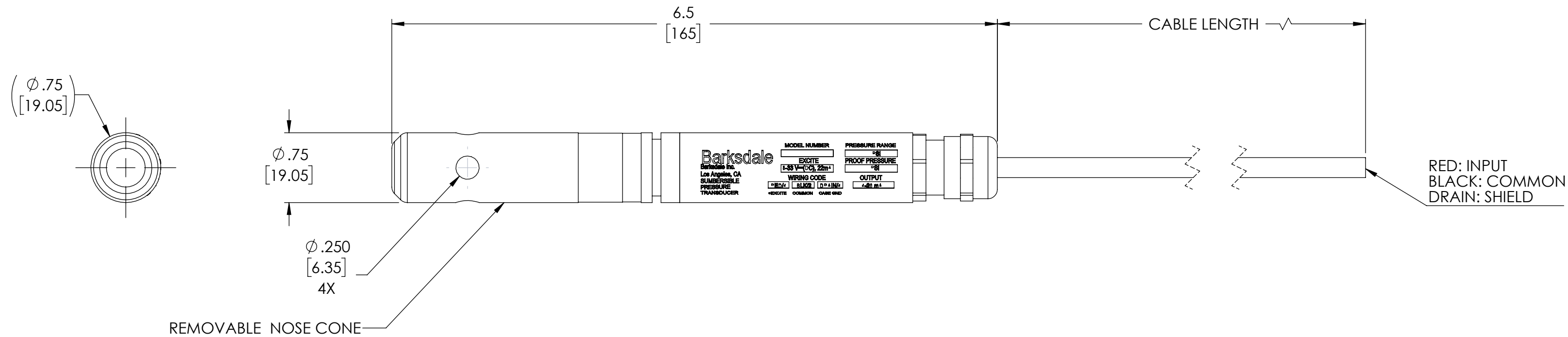
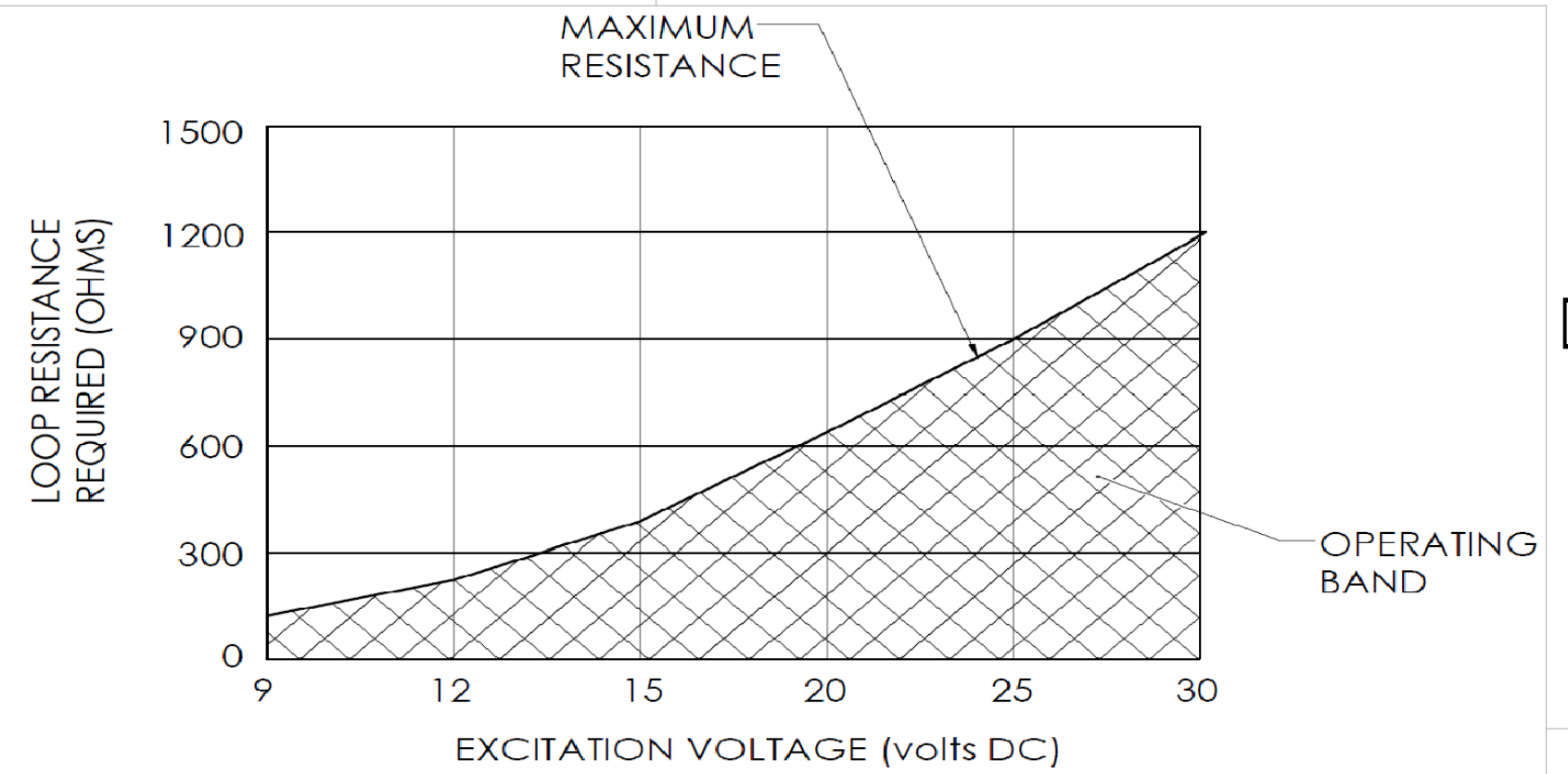
Sales Drawing

BARKSDALE PART NUMBER	EXCITATION VOLTAGE	OUTPUT
BT5-H3-XXG-YYYY-Q30	8-33 VDC	4-20 mA
BT5-H3-XXA-YYYY-Q30		

△ 4 △ 5

PRESSURE RANGE (PSI)	PRESSURE CALL OUT (-XX)
1	-23
5	-27
7	-38
15	-01
25	-39
30	-21
36	-40
50	-03
60	-22
87	-41
100	-04
150	-05
200	-06
230	-42
300	-07
360	-43
500	-08

VENT TUBE OPTION
AVAILABLE ONLY IN
THESE PRESSURE RANGES



7. MEDIA: GROUNDWATER
6. COMPENSATED TEMPERATURE RANGE -20 TO 80°C
5. ACCURACY (BFSL LINEARITY, HYSTERESIS, REPEATABILITY) ± .25% FS
4. CABLE LENGTH SHOWN AS YYYY (FOR EXAMPLE 0030 DENOTES 30 FEET LENGTH CABLE) MAX CABLE LENGTH OFFERED IS 400 M (1300 FEET).
3. PRESSURE RANGES ARE INDICATED AS XXG OR XXA (FOR EXAMPLE, 30G FOR A 30 PSI UNIT). SEALED GAUGE UNITS ARE DENOTED WITH 'G,' AND ABSOLUTE UNITS ARE DENOTED WITH 'A'
2. PROOF PRESSURE 2X
1. WETTED MATERIALS: 316L, POLYURETHANE CABLE JACKET

DRAWN A.CHING DATE 07-31-2023	UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCES ARE PER ANSI Y14.5-82 AND AS FOLLOWS: FRACTION ±1/16 DECIMAL ±.010 ANGULAR ±5° .010 FIM	SUBMERSIBLE PRESSURE TRANSDUCER (4 - 20 mA)	NEXT ASSEMBLY 982863
CHECKED DATE	DIMENSIONS ARE TO BE MET AFTER PLATING. CBORES AND SPOTFACE .031 CORNER RADIUS. BREAK ALL CORNERS .010 R. REMOVE ALL BURRS. ALL MACHINED SURFACES TO BE 125 MAX.	REFERENCE DPM	DIST. <input type="checkbox"/> GndH
APPROVED DATE	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE, NOR USED FOR MANUFACTURING PURPOSES WITHOUT WRITTEN PERMISSION FROM BARKSDALE, INC.	www.barksdale.com	00012820 A 09-26-2023 PCO # REV. DATE
Barksdale CONTROL PRODUCTS Los Angeles, CA 90058-0843 Ph: 323-589-6181 Fax: 323-583-6252		SCALE 2:1	DWG. C BT5-Q30 SHEET 1 OF 1

REV. **A**
 DWG. **C** SIZE **B**
BT5-Q30

SUBMERSIBLE PRESSURE TRANSDUCER

Applications

- ▶ Agriculture Wells
- ▶ Lift Stations and Wet Wells
- ▶ Water Tanks and Towers
- ▶ Storage Tanks
- ▶ Sewage Treatment Plant
- ▶ Sumps and Basins

Agriculture Well Applications

Requirement	Challenge	Benefit of Pressure Sensors	Barksdale Submersible Pressure Transducer Solution
Accuracy and Reliability	Inconsistent water level readings can lead to over-irrigation and water waste, pump running dry leading to damaged equipment.	Precise and consistent water level readings.	Accuracy (BFSL@25°C) = $\pm .25\%$ FS, Response time = < 5 ms, 4 to 20 mA communication to integrate into SCADA systems for continuous data.
Equipment Durability	Harsh conditions, such as heat, humidity, or sediment, can damage traditional equipment quickly.	Built for harsh agricultural environments.	Corrosion Resistant, all stainless-steel construction Fully submersible [IP68] Manufactured in the USA 316L construction with poly jacketed cable
Slim Design	Many agricultural water wells have small diameters. They also need the adaptability to use in wells of varying size.	Online communication and data transfer.	Slim design, Narrow .75" diameter to fit in 1" schedule 120 and schedule 80 PVC to help reduce commissioning costs.
Data Accessibility	Farmers may struggle to get real-time water level information, especially without connectivity in remote locations.	Real-time data availability.	4 to 20 mA communication provides real-time data integrated into monitoring and control systems, reducing dependence on manual readings.
Regulatory Compliance	Farmers need accurate data to meet legal water usage reporting requirements and avoid penalties.	Reliable data for water usage reporting.	4 to 20 mA communication provides accurate and real-time data integrated into monitoring and control systems for reporting to ensure compliance with local regulations and sustainability goals.
Low Cost and Easy Maintenance	Calibration, or replacement of traditional sensors increases operational costs. Having to replace the entire sensor w/cable if cable or sensor gets damaged can be expensive to replace. Cleaning needs to be quick and easy to prevent downtime and labor costs.	Removeable parts for easy maintenance or replacement.	Replaceable cable - If cable gets damaged you can replace without having to replace the cable. Significant cost savings, since most cables for wells can be hundreds of feet long. Vented and Unvented Cable - Unvented cable for reduced risk of water intrusion damage, especially at higher pressures. Removeable nose cone for easy cleaning.

Lift Station and Wet Well Applications

Requirement	Challenge	Benefit of Pressure Sensors	Barksdale Submersible Pressure Transducer Solution
Reliable Pumps	Pumps can fail due to improper water level monitoring, leading to costly repairs and operational downtime.	Reliable water level monitoring prevents pump damage.	Accurate and quick response time. Accuracy (BFSL@25°C) = ± .25% FS, Response time = < 5 ms.
Remote Monitoring/Inspection	Regular manual inspection of lift stations is time-consuming and labor-intensive, especially in remote locations.	Enables remote and automated monitoring, reducing labor costs.	4 to 20 mA communication provides real-time data and integration or output to SCADA or control and monitoring equipment.
Accurate and consistent readings	Traditional methods like floats or ultrasonic sensors can be unreliable due to turbulence or condensation.	Accurate and stable readings in varying conditions.	Accuracy (BFSL@25°C) = ± .25% FS, Response time = < 5 ms, 316L construction with polyjacketed cable.
Low Cost and Easy Maintenance	Frequent cleaning, calibration, or replacement of traditional sensors increases operational costs.	Removeable parts for easy maintenance or replacement.	<p>Replaceable cable - If cable gets damaged you can replace without having to replace the cable. Significant cost savings, since most cables for wells can be hundreds of feet long.</p> <p>Vented and Unvented Cable - Unvented cable for reduced risk of water intrusion damage, especially at higher pressures.</p> <p>Removeable nose cone for easy cleaning reducing labor costs.</p>
Early Detection of changing water levels	Inaccurate water level data can lead to system overflows, causing environmental and regulatory compliance issues.	Early detection of high water levels.	4 to 20 mA communication provides real-time data so operators can react quickly to changing water levels.
Environmental Compliance	Compliance with wastewater management regulations requires accurate and reliable water level data.	Reliable data for regulatory reporting.	4 to 20 mA communication provides real-time data and integration or output to SCADA or control and monitoring equipment providing reporting capability to comply with any environmental regulations.

Water Tank and Tower Applications

Requirement	Challenge	Benefit of Pressure Sensors	Barksdale Submersible Pressure Transducer Solution
Monitor Water Level	Traditional methods often provide imprecise measurements, leading to overfilling or underfilling.	High-precision water level readings.	Accurate and quick response time. Accuracy (BFSL@25°C) = ± .25% FS, Response time = < 5 ms.
Manual Monitoring Challenges	Regular inspections require significant labor and time, especially for tall towers or remote tanks.	Enables remote and automated monitoring.	4 to 20 mA communication provides real-time data and integration or output to SCADA or control and monitoring equipment in easy accessible location; no need for manual inspections.
Tank Overflows and Dry Runs	Manual monitoring doesn't provide real-time data and can cause overflows, wasting water, or dry runs, which may damage pumps to the tank overflows or runs dry.	Prevents overflows and dry runs.	4 to 20 mA communication provides real-time data and integration or output to SCADA or control and monitoring equipment so operators can react quickly to changing water levels.
Environmental and Regulatory Compliance	Overflowing or mismanaging water tanks can lead to environmental damage and regulatory fines.	Provides accurate data for compliance.	4 to 20 mA communication provides accurate and real-time data integrated into monitoring and control systems for reporting to ensure compliance with local regulations and sustainability goals.
Maintenance Costs	Frequent maintenance or replacement of traditional level monitors can increase operating costs.	Low-maintenance and durable solution.	Pressure sensors are robust, durable, and require minimal maintenance over time. Replaceable cable - If cable gets damaged you can replace without having to replace the cable. Significant cost savings, since most cables for wells can be hundreds of feet long. Vented and Unvented Cable - Unvented cable for reduced risk of water intrusion damage, especially at higher pressures. Removeable nose cone for easy cleaning
Energy Inefficiency	Inefficient pump usage due to poor water level monitoring increases energy costs.	Optimized pump operations.	4 to 20 mA communication provides real-time data and integration or output to SCADA or control and monitoring equipment so adjustments can be made hourly/daily/weekly. Accuracy (BFSL@25°C) = ± .25% FS, Response time = < 5 ms
Corrosion and Harsh Conditions	Harsh environmental conditions can damage traditional sensors or monitors.	Pressure sensors are built to withstand extreme weather, corrosion, and high humidity.	Corrosion Resistant, all stainless-steel construction Fully submersible [IP68] 316L construction with poly jacketed cable

Storage Tank Applications

Requirement	Challenge	Benefit of Pressure Sensors	Barksdale Submersible Pressure Transducer Solution
Inaccurate Level Monitoring	Traditional methods often result in unreliable readings, causing overfilling, underfilling, or material shortages.	High-precision level readings.	Accuracy (BFSL@25°C) = ± .25% FS, Response time = < 5 ms
Manual Inspection Challenges	Frequent manual checks are labor-intensive, time-consuming, and may pose safety risks, especially in hazardous areas.	Remote and automated monitoring.	4 to 20 mA communication provides real-time data, reducing dependence on manual readings.
Risk of Overflows or Leaks	Overfilling can lead to spillage, safety hazards, or regulatory non-compliance, while leaks may go unnoticed.	Early detection of critical levels.	4 to 20 mA communication provides real-time data so operators can react quickly to changing water level thresholds due to leaks and overflows.
Environmental and Regulatory Compliance	Failing to maintain accurate records or manage levels can result in environmental damage and legal penalties.	Accurate data for compliance reporting.	Provides accurate and continuous data with 4 to 20mA communication for reporting to ensure compliance with local regulations and sustainability goals.
Material Compatibility Issues	Corrosive or volatile materials can damage traditional monitoring equipment.	Durable and corrosion-resistant design.	Corrosion Resistant, all stainless-steel construction Fully submersible [IP68] 316L construction with poly jacketed cable
Maintenance Costs	Frequent maintenance or replacement of traditional level monitors can increase operating costs. Calibration, or replacement of traditional sensors increases operational costs. Having to replace the entire sensor w/cable if cable or sensor gets damaged can be expensive to replace. Cleaning needs to be quick and easy to prevent downtime and labor costs.	Low-maintenance and durable solution. Removeable parts for easy maintenance or replacement.	Pressure sensors require minimal maintenance and are built for long-term use, reducing costs over time. Replaceable cable - If cable gets damaged you can replace without having to replace the cable. Significant cost savings, since most cables for wells can be hundreds of feet long. Vented and Unvented Cable - Unvented cable for reduced risk of water intrusion damage, especially at higher pressures. Removeable nose cone for easy cleaning
Energy Inefficiency	Inefficient pump control due to poor monitoring leads to excessive energy consumption.	Optimized energy usage.	4 to 20 mA communication provides accurate and real-time data integrated into monitoring and control systems for reporting to ensure compliance with local regulations and sustainability goals.

Sewage Treatment Plant Applications

Requirement	Challenge	Benefit of Pressure Sensors	Barksdale Submersible Pressure Transducer Solution
Inaccurate Level Monitoring	Poor measurement of water or sludge levels can disrupt treatment processes, leading to inefficiencies or non-compliance.	High-precision level monitoring.	4 to 20 mA communication provides real-time data for accurate and reliable measurement of liquid and sludge levels in treatment tanks.
Manual Inspection Challenges	Frequent manual monitoring of tanks and basins in hazardous environments is labor-intensive and poses safety risks.	Enables remote and automated monitoring.	4 to 20 mA communication provides real-time data, reducing the need for on-site manual inspections, reducing risks.
Clogging and Debris Interference	Solids, debris, or foam in sewage can obstruct traditional sensors like ultrasonic or float systems.	Non-intrusive and debris-resistant.	Transducers provide accurate readings regardless of debris or solids in wastewater. Removeable nose cone for easy cleaning.
Corrosive and Harsh Conditions	Exposure to corrosive chemicals, gases, and wastewater can quickly degrade traditional monitoring equipment.	Durable and corrosion-resistant.	Corrosion Resistant, all stainless-steel construction Fully submersible [IP68] 316L construction with poly jacketed cable
System Overflows or Backup Issues	Inadequate monitoring of water levels can cause overflows, backups, or damage to equipment, leading to downtime.	Early detection of critical levels.	Pressure sensors provide real-time alerts to prevent overflows or backups, enabling quick corrective action.
Maintenance Costs	Frequent cleaning, calibration, or replacement of traditional sensors increases operational costs.	Low-maintenance and robust design.	Pressure sensors are durable, requiring minimal maintenance, and provide long-term cost savings. Replaceable cable - If cable gets damaged you can replace without having to replace the cable. Significant cost savings, since most cables for wells can be hundreds of feet long. Vented and Unvented Cable - Unvented cable for reduced risk of water intrusion damage, especially at higher pressures. Removeable nose cone for easy cleaning
Regulatory Compliance	Failing to maintain accurate records of treated water levels or flows risks fines and legal issues.	Reliable data for regulatory reporting.	4 to 20 mA communication provides accurate and real-time data integrated into monitoring and control systems for reporting to ensure compliance with local and wastewater treatment regulations.
System Downtime and Failures	Equipment failures caused by poor monitoring can disrupt the entire treatment process, leading to costly downtime.	Proactive maintenance through early warnings.	4 to 20 mA communication provides real-time data for accurate and reliable measurement detecting anomalies early, helping avoid unplanned downtime and maintaining continuous operation.

Sump and Basin Applications

Requirement	Challenge	Benefit of Pressure Sensors	Barksdale Submersible Pressure Transducer Solution
Inaccurate Level Monitoring	Poor measurement of water levels in sumps or basins can lead to overflows, pump failures, or inefficiencies.	High-precision level monitoring.	Accuracy (BFSL@25°C) = ± .25% FS, Response time = < 5 ms
Manual Inspection Challenges	Frequent manual checks are time-consuming, labor-intensive, and may expose workers to hazardous conditions.	Remote and automated monitoring.	4 to 20 mA communication provides real-time data, reducing the need for on-site manual inspections, reducing risks.
Risk of Overflows	Overflows due to inaccurate level readings can cause flooding, damage, or contamination of surrounding areas.	Early detection of critical levels.	4 to 20 mA communication provides real-time data that can be integrated into the operators SCADA system triggering real-time alerts to prevent overflows and enable timely intervention.
Clogging and Debris Interference	Solids, sludge, or debris in sumps and basins can interfere with traditional monitoring equipment.	Non-intrusive and debris-resistant operation.	Removeable nose cone for easy cleaning
Maintenance Costs	Traditional sensors require frequent cleaning, calibration, or replacement due to exposure to harsh environments.	Low-maintenance and robust solution.	Pressure sensors are durable and require minimal maintenance, reducing long-term operational costs. Replaceable cable - If cable gets damaged you can replace without having to replace the cable. Significant cost savings, since most Vented and Unvented Cable - Unvented cable for reduced risk of water intrusion damage, especially at higher pressures. Removeable nose cone for easy cleaning
Variable Water Inflows	Fluctuations in water inflows, especially during heavy rain or storm events, can lead to system overloads.	Stable performance in varying conditions.	4 to 20 mA communication provides real-time data so operators can react quickly to changing water level thresholds and ensuring accurate monitoring even in dynamic inflows.
Environmental Concerns	Overflowing sumps or basins can lead to environmental contamination or regulatory non-compliance.	Ensures compliance and prevents contamination.	Provides accurate and continuous data with 4 to 20mA communication for reporting to ensure compliance with environmental regulations and sustainability goals.
System Downtime	Unexpected equipment failures due to improper monitoring can disrupt operations and cause costly downtime.	Reliable monitoring to minimize downtime.	4 to 20 mA communication provides real-time data for accurate and reliable measurement detecting anomalies early, enabling proactive maintenance and uninterrupted operations.

SUBMERSIBLE PRESSURE TRANSDUCER

Competition

Submersible Market Competition

Competitor	Barksdale Submersible BoT	Seametrics PS98i	Stevens Engineering SDX	IFM PS4607	TE AST4500	Core Sensors CS12	In-SITU LevelTroll
Supply Voltage	8-33 VDC	9-24 VDC	9-26 VDC	10-30 VDC	10-28 VDC	10-28 VDC	8-33 VDC
Body Material	316L Stainless Steel	Acetal and 316 stainless or optional titanium	PVC Type II	1.4571/316Ti SS	316L / 304 Stainless Steel	316L / 304 Stainless Steel	Titanium body; Delrin nose cone
Cable Material	Polyurethane	Polyurethane, polyethylene, or ETFE available for cable	n/a	nylon	Hytrel® Cable, Kynar® Cord Grip, Viton®, Buna-N	ETFE, nylon, buna-N, Viton	TPU (thermoplastic polyurethane) Tefzel (ETFE fluoropolymer)
Vented Option	Yes	No	Yes	Capillary tube for Pressure Compensation	Yes	Yes	Yes
Measurement Range	Up to 500 psi [34.5 bar] Equivalent to 1,154 ftwc [351.6 mwc]	692 ft of H2O (300 psi)	50 ft of H2O (21 psi)	30 ft of H2O (14.5 psi)	230 ft of H2O (100 psi)	230 ft of H2O (100 psi)	Absolute (non-vented) 30 psia (11 m, 35 ft) 100 psia (60 m, 197 ft) 300 psia (200 m, 658 ft) 500 psia (341 m, 1120 ft)
Operating Temperature	40 to 212 °F (-40 to 100 °C)	-5° to 70°C (23° to 158°F) Requires freeze protection if using in water below freezing	-40° F to 185° F (-40° C to 85° C)	-10 to 85°C (14 to 185°F)	-40 to 80°C (-40 to 176°F)	-40° F to 185° F (-40° C to 85° C)	-20 to 80° C (-4 to 176° F)
Compensated Temperature	-4 to 176 °F (-20 TO 80°C)	-5° to 70°C (23° to 158°F) Requires freeze protection if using in water below freezing	32° F to 122° F (0° C to 50° C)	-10 to 85°C (14 to 185°F)	-40 to 80°C (-40 to 176°F)	32° F to 131° F (0° C to 55° C)	-5 to 50° C (23 to 122° F)
Certifications	REACH, RoHS, CE	CE ISO 9001	No Info	DNV CE IEC IECEX	UL Class 1 Div 1 Intrinsically Safe ATEX, IECEX	RoHs	RoHS, CE
Accuracy	± .25% FS (BFSL@25°C)	≤ ± .25%	≤ ± .25%	≤ ± .25%	≤ ± .25%	≤ ± 0.25%	±0.05% FS from -5 to 50° C
Transducer Diameter	0.75" (1.9 cm)	0.75" (1.9 cm)	0.84" (2.13 cm)	No Direct Info (look at dwg)	0.875" (2.22 cm)	0.86" (2.2 cm)	0.72" (1.83 cm)

Submersible Market Competition

Competitor	Blue Ribbon BR313 Series	E&H FMX11	Vega Vegawell 52	Wika LH-10	Dwyer SBLT2 & SBLTX	Noshok 612/613 series
Birdcage option?	Yes, BC 001	No	No	Yes, as attachment	Yes, PBLT2 & PBLTX	Yes, 613 series
Supply Voltage	9-36 VDC	8-28 VDC	8-35 VDC	10-30 VDC	10-30 VDC	10-30 VDC
Surge Arrestor	Lifetime Surge Warranty Replacement Program when partnered with the BCP3000 Surge Protector	No	Integrated overvoltage protection	Integrated lightning protection	SBLT2: Lightning and surge protection dual arrestor tech – not covered by warranty; SBLTX: None	Short circuit and optional lightning protection per EN 6100-4-5
Wetted Material	316SS PVDF (optional) Titanium (optional)	316L	316L PVDF Duplex Titanium	316L Hastelloy (optional)	316SS 316L SS	316SS
Measurement Range	10 ft thru 1153 ft	656 ft	820 ft	33ft (984ft submersible range)	30ft	2311 ft
Operating Temperature	-40 °F to +185 °F (-40 °C to +85 °C)	-10°C...+70°C (+14°F...+158°F)	-20 ... +80 °C (-4 ... +176 °F)	- PUR cable: -10 ... +50 °C - FEP cable: -10 ... +85 °C	SBLT2: 0 to 140°F (-18 to 60°C); SBLTX: 0 to 176°F (-18 to 80°C).	14 °F to 122 °F -10 °C to 50 °C
Compensated Temperature	0 °F to +140 °F (-17.7 °C to +60 °C)	-	-	-	SBLT2: Polyurethane: 0 to 150°F (-18 to 66°C); ETFE: 0 to 200°F (-18 to 93°C); SBLTX -4 to 176°F (-20 to 80°C); Polyurethane: -4 to 149°F (-20 to 65°C).	32 °F to 122 °F 0 °C to 50 °C
Certifications	FM, CSA Intrinsically safe	INMETRO, NEPSINSF, KTW, ACS	INMETRO, ATEX, IEC, FM, CSA, EAC	CSA, GOST, CE, CRN	SBLT2: CE; SBLTX: CE, cULus intrinsically safe for Class I, Div. 1, Groups A, B, C, D	CE
Accuracy	≤ ± .5% Standard ≤ ± .2% Optional	≤ ± .5% Standard	0.1%	≤ ± .5% <0.25 bar ≤ ± .25% >0.25 bar	≤ ± .25%	≤ ± .25% ≤ ± .125%
Sensor	Oil Filled Diaphragm Ceramic	Oil Filled Diaphragm Ceramic (higher cost model)	Ceramic	Oil Filled Diaphragm	Oil Filled Diaphragm	Oil Filled Diaphragm
Transducer Width	0.875" (2.22 cm)	0.87" (22 mm)	1.26" (32 mm)	1.06" (27 mm)	1" (25.40mm)	1.06" (27 mm)

SUBMERSIBLE PRESSURE TRANSDUCER

Product Image

