

# PRODUCT OVERVIEW



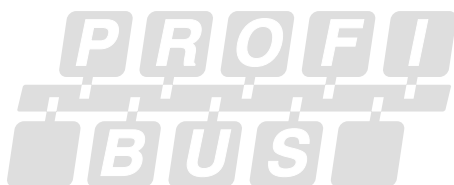
switch



measure



control



## Product quality at the highest level

It is probably our awareness of the problems that face our customers, the fact that we are always on hand to help users, as well as our all-round specialist knowledge - that is what the name of Barksdale stands for, competence and quality in the area of mechanical and electronic control of liquid and gaseous media. We see it as both our mission and obligation to develop tried and tested products that display a high degree of functional safety in daily use.

Whether it is in the field of mechanical or electronic measuring and control, Barksdale products exhibit a high level of quality and reliability.

## Quality instead of quantity - but with variety in application options

Based in Germany, we have been developing tailor-made and innovative solutions for over thirty years. Our name stands for our belief in producing proven product quality and a high level of functional safety.

We have a globally structured sales network that can offer advice on the use of our innovative and market-focused products in the areas of pressure, level, flow and temperature measuring processes.

## Know-how in conjunction with precision

For us quality in conjunction with innovative products and a professional approach are the guarantee of a positive business development generated by a satisfied customer base.

A fair and honest relationship with our customers and staff as well as an awareness of environmental considerations guides us in our daily decision making.

## Barksdale - speak to us!



# Pressure

## Metal-Diaphragm-Pressure and Difference Pressure Switches



- Ranges: -1...10,5 bar
- 1, 2 or 3 set points
- Additional EEx-d and EEx-i versions acc. to ATEX
- For minimal to high contact loads
- Precise all-welded stainless steel pressure capsule

**Applications:**  
Chemical and process industry, medical and autoclave systems, filter monitoring, cooling systems



## Bourdon Tube Pressure Switches



- Ranges up to 1250 bar
- 1, 2, 3 setpoints
- Optional EEx-d and EEx-i versions
- For minimal to high contact loads
- Precise Bourdon tube sensor in stainless steel

**Applications:**  
Chemical and process industry, power stations, hydraulic systems, high voltage switch gear

## Mini Pressure Switches with Diaphragm or Piston



- Ranges: 1...600 bar
- High proof pressures up to 900 bar
- Adjustable or fixed set points
- Protection IP65 / IP67
- Compact, rugged, economical
- Additional EExd and EExi models

**Applications:**  
Machine tools, mobile hydraulics, high pressure compressors, hydraulic accumulators, gas bottle battery monitoring

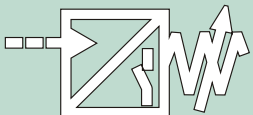


## Electronic Pressure Sensors and Switches



- Ranges: 0...100 mbar up to 5000 bar
- Analog output 4...20 mA / 0...10 V DC
- Single pressure switch with set point free adjustable
- Many versions include front flush diaphragm and flange versions
- Compact, accurate, long life
- EExi versions, high temperature versions

**Applications:**  
Construction machines, machine tools and systems, hydraulics and pneumatics, mobile hydraulics



## Diaphragm Seal Piston Pressure Switches



- Ranges: -1...110 bar
- As piston switches up to 900 bar
- Set point scale
- EEx-i available acc. to ATEX and Ex-proof to CSA and UL
- For minimal to high contact loads
- Rugged and economical!

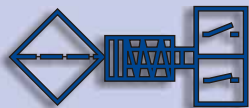
**Applications:**  
Industrial systems, mobile equipment and machine tools, medical and water treatment systems, pneumatics

## Electronic Indicating Pressure Switches Analog and Binary Output



- Ranges: 0...100 mbar up to 5000 bar
- 1, 2, 4 set points free adjustable
- Multi-function digital display
- Peak value memory
- State-of-the-art microprocessor controlled
- Keypad with easy response pushbuttons
- Fail-safe by watchdog
- Option: Analog output 4...20 mA / 0...10 V DC
- EExi versions or with interface like Profibus for data transfer and remote programming

**Applications:**  
Automotive industry, machine tools and systems, hydraulic and pneumatic, test beds, steel industry, filter monitoring



# Level

## Ultrasonic Level Switch



- One set point
- SPDT contact
- No moving parts
- Any mounting position
- Compact design
- Models in corrosion-proof plastic (PPS Ryton)
- Compatible with various media (up to 5000 cSt)

### Applications:

Minimum / maximum control of fluids in storage tanks, for fluid and viscous media and fine bulk material

## Single Level Switches



- SPST or SPDT reed contacts
- All metal and non-metal versions
- Vertical or horizontal mounting
- Protection class IP54 / IP68
- Many approvals

### Applications:

Everywhere in fluid storage, handling and controlling, ship bilge

## Tank Level Gauging



- Continuous level monitoring
- Incremental accuracy 4 mm or 6,4 mm
- All metal or plastic versions
- Mounting: vertical or custom made
- Integratable transmitter 4...20 mA
- Optional: Interface level measurement

### Applications:

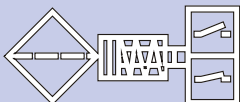
Utilities, industrial, barges, shipbuilding, offshore oil and gas

## Bypass Level Indicators

- Continuous level indication, purely mechanical, no power needed
- Temperatures up to 350 °C
- Pressures up to 64 bar
- All metal or plastics
- Mounting tankside, bypass or tanktop
- Optional transmitter 4...20 mA
- Optional level trip points
- EExi- and shipbuilding approvals
- Interface optional

### Applications:

Replaces sightglasses, level monitoring where legibility up to 40 m is needed, offshore



## Multi Level Switches



- Up to 6 levels
- SPST or SPDT reed contacts
- Metal and non-metal versions
- EExi- and shipbuilding approvals
- Protection class IP54

### Applications:

Pump controller, level monitoring, machine industry, shipbuilding, in mobile and stationary applications

## Electronic Level Probes



- Continuous level measurement
- Measuring range from 0...0,6 up to 0...200 m WC
- Signal output 0...10 V or 4...20 mA
- EExi- and shipbuilding approvals
- Different materials and mounting alternatives

### Applications:

Ground water level measurement, level indication in wells and open tanks, even with low filling levels, waste-water purification, chemical plants, pharmaceutical industry, bilge tank control, offshore



# Flow

## Flow Switches and Monitors



- Pipe sizes 1/4" to 1 1/2" BSP/NPT
- Stainless steel 1.4571 or nickel plated brass
- Displacer-in-tube design
- Calibrated scale with optional viscosity compensation up to 600 cSt available
- Optional visual indication
- NO/NC, SPST or SPDT output, SPDT also in EEx-d version

### Applications:

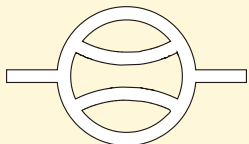
Flow control in liquids and gases, lubrication and cooling system protection

## Electronic Flow Switches with Ultrasonic Sensor

- 2 set points and analog output
- 7-segment LED display
- Microprocessor-controlled, self monitoring with error display
- DESINA® conformity
- All parameters are configured by keypad
- Tamper proof, keypad lock
- Rugged construction, vibration- and shock-proof
- Long term stability

### Applications:

OEM-applications, automotive, automobile industry, cooling





## Mechanical Temperature Switches



- Ranges between  $-54\text{ }^{\circ}\text{C}$  and  $+316\text{ }^{\circ}\text{C}$
- For fluids and gases
- Ambient temperature compensation
- For minimal to high switch loads
- Optional EEx-d and EEx-i versions
- Rugged and very accurate

### Applications:

Chemical and process industry, shipbuilding, power stations, heat exchangers, trace heating systems

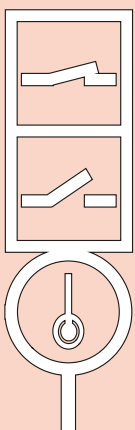
## Electronic Temperature Sensors and Switches with and without display



- Ranges:  $-30\text{ }^{\circ}\text{C}$ ... $+150\text{ }^{\circ}\text{C}$
- With integrated PT100 or external sensor
- 1, 2, 4 set points, free adjustable
- Compact and microprocessor versions
- Peak value memory
- Long life, fail-safe by watchdog
- Integrated Pt100-element
- Option: analog output  $4...20\text{ mA}$  /  $0...10\text{ V}$
- Versions with interface like Profibus etc. for data transfer and remote programming

### Applications:

Energy and environmental systems, air conditioning, machine tools, hydraulic systems, analyzers and medical systems





# Valves

## Shear Seal Directional Control Valves



- Operating pressures up to 700 bar
- At large flow at very low pressure drop
- Drip tight, zero leakage
- Low torque manual control
- Not affected by dirt in the fluid
- Sensitive continuous flow control

### Applications:

Test stands, offshore, steel industry, rescue service, hydraulic control systems

## Air Suspension Valves



- Shear seal principle
- Large airflow capacity (400 l/min)
- Dual porting
- Integrated quick dump valves

### Applications:

Trucks, trailers, axle control, cab control

