# BLUE RIBBON CORP

## Water/Wastewater Instrumentation

*Quality & Dependability*

## Model BC001 Birdcage®

***The Industry standard for reliable lift-station level transmitters.***

Find us in MASTERSPEC

ISO9001:2015 CERTIFIED

AD Together, we win.

SWA

NCWA

ASME.B40.1

# Water / Wastewater

## MODEL BR313SL

**Low-Cost Submersible Level Transmitter**

### FEATURES

- Slim 0.622" (15.8 mm) diameter housing
- 0 to 3 PSI thru 285 PSI (200 meters WC)
- 4-20 mA, 0-5 Vdc, 1-5 Vdc, and 0-10 Vdc output
- Rugged, welded, leak-proof SST construction
- Silicon sensor technology
- Up to 0.25 % FSO accuracy
- Hydrophobic breather filter
- CE certified

### APPLICATIONS

- Sewage lift and pump stations
- Deep well and borehole
- Groundwater monitoring
- Shipboard level control
- Weirs, wells, pond, reservoir, and dam level

## MODEL BR311

**Industrial Grade Pressure Transducer**

### FEATURES

- Ranges: 0-30" WC thru 0-15K PSI (75 MBAR to 1,034 BAR)
- Outputs: mV/V, Vdc, 4-20 mA
- Rugged, welded, SST construction
- High proof pressure
- Economically priced

### APPLICATIONS

- Hydraulic & pneumatic controls
- Die casting
- Rolling & steel mills
- Compression skids
- Irrigation pumps pressure
- Oilfield truck pressures

## MODEL BC001 Birdcage®

**Submersible Pump Lift Station Sludge Level Transmitter**

### FEATURES

- 3-inch diameter sensing diaphragm resists clogging
- Protective baffle plate reduces risk of sensor damage
- Corrosion-resistant, all stainless steel construction
- Submersible to 1,100 feet (335 meters) WC
- Surge protection from lightning strikes and voltage spikes
- Ranges from 0 to 5 thru 0 to 500 PSI (0 to 10 thru 1,100 FTWC)
- 4-20 mA or 0 to 5 Vdc output
- Optional temperature output

### APPLICATIONS

- Submersible pump lift station level monitoring
- Wet wells
- Process sumps
- Water tanks and reservoirs
- Process sludge (including heavy sludge)
- Water and wastewater level monitoring

FM & CSA Approvals Pending

## MODEL BR340-IM

**Flush Mount Pressure Transmitter**

### FEATURES

- 4-20 mA or 0-5 Vdc output
- Flush faced sensor minimizes media plugging and damage
- Compact 1" diameter
- Rugged, all-welded stainless steel design
- No zero offset from installation
- 5X proof pressure

### APPLICATIONS

- Wastewater treatment
- Onboard vehicles
- Skidded systems
- Sludge and slurries
- Adhesives and paints
- Pump suction and discharge lines of blender trucks
- Corrosive and higher viscosity media

## MODEL BR313R

**Slim Submersible Level Transmitter**

### FEATURES

- Slim 0.622" (15.8 mm) diameter housing
- 0 to 40" WC thru 285 PSI (200 meters WC)
- 4-20 mA output
- Rugged, welded, leak-proof SST construction
- Silicon sensor technology
- Up to 0.25% FSO accuracy
- Hydrophobic breather filter

### APPLICATIONS

- Sewage lift and pump stations
- Deep well and borehole
- Groundwater monitoring
- Shipboard level control
- Weirs, wells, pond, reservoir, and dam level

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# Transmitters & Pump Controllers

## FEATURES

- Removeable stainless steel sludge nose
- Submersible to 650 ftwc (200 mwc)
- 1.06" (27 mm) diameter
- Up to ±0.1 % FSO accuracy
- All stainless steel construction
- 0-5 Vdc and 4-20 mA output
- CE Directives: EMC, PED, ROHS

## MODEL BR1112/1113

**Submersible Level Transmitter with Sludge Nose**

## APPLICATIONS

- Wet wells, ponds, rivers and tank level measurements
- Water and waste water treatment
- Ground water monitoring
- Irrigation

CSA, FM, CE
Approvals Pending

## FEATURES

- ATEX & IEC approvals
- Submersible to 700 FTWC (213.4 meters WC)
- 1" diameter
- FM & CSA approvals pending
- All 316L stainless steel construction
- Lightning suppression standard

## MODEL BR313AI

**Submersible Level Transmitter Hazardous Locations**

## APPLICATIONS

- Wet wells, ponds, rivers and tank level measurements
- Water treatment
- Ground water monitoring
- Irrigation

## MODEL BD100X

**Set Point Pump Controller**

## FEATURES

- Control ON-OFF for two pumps
- Front-panel, and backend programming
- 4 relays, that can all be used for pump control
- Analog output for runtimes
- 24 VDC power
- Accepts 4-20 mA or 1-5 VDC
- Non-volatile memory, no batteries
- Alternation of pumps set as default
- Set Point Range: Low and High selected independently
- Display: Two 4-digit, 7 segment, 14.2 mm (0.56") high LED's
- Control Action: Selectable for Reverse/Direct, Alternation or not
- Accuracy: ±0.25% of reading ±1 least significant digit
- Electrical Supply: 100 to 240 VAC nominal, +10% to 15%, 50 to 400 Hz single phase; 132 to 240 VDC +10% to 20%
- Weight: 454 g (16 oz)
- Front Panel Reading: IP66 (Type NEMA 4X)

## MODEL BD306

**Pump Controller**

## FEATURES

- Dual Input Process Controller with Math Functions
- 0-20 mA, 4-20 mA, 0-5 V, 1-5 V, and ±10 V Inputs
- Large Dual-Line 6-Digit Display, 0.60" & 0.46"
- NEMA 4X, IP65 Front
- Universal 85-265 VAC, or 12/24 VDC Input Power
- Programmable Display & Function Keys
- 32-Point, Square Root, or Exponential Linearization
- Multi-Pump Alternation Control
- USB, RS-232, RS-485 and Modbus® RTU Serial Communication Protocol
- Free BULLDOG® Pro Software for Operation, Monitoring, and Programming
- Standard ⅛ DIN (45mm x 92mm)

# GAUGES, DIAPHRAGM SEALS, ACCESSORIES

## MODEL BR101

**Steel Utility Gauge**

### SPECIFICATIONS

- Black Steel Case
- Glass Lens
- Brass socket and movement
- Dial Sizes: 1½", 2", 2½", & 4"
- Phosphor Bronze Bourdon Tube
- Dry, Non-Fillable
- Connection Sizes:
  - ⅛" (M) NPT on 1½" & 2"
  - ¼" (M) NPT on 2" & 2½"
- Accuracy: 3-2-3% (ASME B40.1 Grade B)
- Ambient Temperature: -50 °F to +160 °F
- Dual Scale: PSI & Bar (x100=kPa)
- IP52 Enclosure
- Over Pressure: 25% FSO
- Working Pressure: 75% FSO

## MODEL BR201

**Liquid Filled Gauge**

### SPECIFICATIONS

- 304 Stainless Steel Case
- Brass Internals & Connection
- Acrylic Lens
- Dial Sizes: 1½", 2", 2½", 4", & 6"
- Phosphor Bronze Bourdon Tube
- Glycerine fill standard
- Accuracy: 1½" & 2" Dials: 2%
  2½" Dial: 1.6% (ASME B40.1, Grade 1A)
  4 & 6" Dials: 1% (ASME B40.1, Grade 1A)
- Connection Sizes:
  ⅛" (M) NPT on 1½" & 2"
  ¼" (M) NPT on 2", 2½", and 4"
  ½" (M) NPT on 4" & 6"
- Dual Scale: PSI & BAR
- Ambient Temperature:
  Filled: 0 °F to +150 °F
  Dry: -30 °F to +150 °F
- IP65 Enclosure

## MODEL BR300L

**w/Series 1000 Diaphragm Seal**

### SPECIFICATIONS

- Case: 304 SST w/bayonet bezel design
- 316 SST Internals
- Stainless Steel Bourdon Tube & Connection
- IP65 Enclosure
- Glycerine fill standard, Dry available
- Accuracy: 2½" Dial - 1.6% (ASME B40.1, Grade A)
  4" & 6" Dials - 1%;
  (ASME B40.1, Grade 1A)
- Dual Scale: PSI & Bar (x100=kPa)
- Ambient Temperature:
  Filled: +30 °F to +160 °F
  Dry: -30 °F to +180 °F
- Safety Glass Lens
- Overpressure Limit: 30% FSO
- Working Pressure: 75% FSO

## MODEL BR411D

**w/Series 1000 Diaphragm Seal**

### SPECIFICATIONS

- Dial Size: 4½"
- AISI 316 SST Bourdon tube & socket (BR400)
- Brass Tube & Socket (BR800)
- Accuracy: 0.5% FS (ASME B40.1, Grade 2A)
- Phenolic-Solid Front/Blow-Out Back Case
- Lens: Shatterproof Safety Glass
- Movement: 304 SST with Over/Under Stops
- Knife Edge Micro-Adjustable Pointer
- IP65 Enclosure
- Working Pressure: 75% FSO
- Over Pressure: 20% up to 10K PSI; 10% over 10K PSI
- Ambient/Process Temperature :
  Filled: -40 °F to +160 °F
  Dry: -40 °F to +180 °F

### Series 1000 Diaphragm Seal

- Housing: 316 Stainless Steel • Diaphragm: 316 Stainless Steel Construction • Two-Piece Bolted Gasket • Buna-N (30 PSI to 2500 PSI) • Viton (30"HgV to 30 PSI) Connection
- Bottom: ¼", ½", ¾" and 1" NPT • Top: ¼" and ½" NPT • Process Temperature: -22 ºF to +212 ºF (-30 ºC to +100 ºC)

# BIRDCAGE ACCESSORIES

## MODEL BCP3000

**Birdcage® Series Surge Protector**

### FEATURES

- Lifetime warranty against lightning and voltage surges for BC001 Birdcage® (4-20mA only)
- 13mm DIN rail mount chassis
- Replaceable surge module
- UL 497B Listed
- Multiple ground options
- High current gas discharge tubes (GDT)
- Fast response Surge-Arresting Diode (SAD)

## MODEL BCH2000

**Cable Hanger**

### FEATURES

- Lowcost, high durability
- Withstands 200 lbs of weight
- Heavy duty molded plastic
- Tapered insert - non-slip design
- Made for Standard Blue Ribbon polyurethane & Tefzel® cable
- Designed for cable diameters of 0.30" thru 0.50"

Shown in Application with the Model BC001 Birdcage®

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