

Clark-Reliance®

Instrumentation and Controls Group



JERGUSON®

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JERGUSON®

Jerguson® Gage and Valve is the leading supplier of level gaging products, offering the world's largest selection of liquid level gage glasses, magnetic gages, and accessories. Jerguson gages and valves have been installed on everything from the Stanley Steamer to the most advanced nuclear aircraft carrier. Jerguson pioneered and is the only manufacturer of complete product offerings in both traditional glass and magnetic-type gages. This wide array of product offering assures that solutions are based on customer needs . . . not on what is available.

Jerguson® provides you a single-source level measurement & control solution, bringing an entirely new plateau of technology to remote level indication. Jerguson introduces Tuning Fork Frequency Shift, Ultrasonic Gap, Displacer, Non-Contact Ultrasonics as well as Capacitance Technologies. This variety of measurement technologies allows you to select a product for nearly any type of level application.



Jerguson also provides in-depth application knowledge and resource specialists in "non-standard" products engineered to customer specifications.



*leading industry with the most complete line
of innovative products and solutions*



Armoured Level Gages

Magnetic



TRANSPARENT GLASS

Reliable, accurate liquid level indication where fluid properties must be directly viewed.

Features:

- Recessed Gasket Surface
- Shrouded Covers
- Meets ASME/ANSI/NACE Standards
- Complete line of safety shut off valves available

Capabilities:

- Pressures from 300# ANSI to 10,000 psi
- Temperatures from cryogenic to 800F
- Large Volume Chambers Available
- Available with a wide variety of connection configurations
- Custom Engineered Solutions

Applications:

- Interface Applications
- Steam Applications w/mica shields to protect glass
- Hydrocarbon Processes
- Offshore Platforms
- Acid Storage
- Water Treatment
- Pulp & Paper

(Series 20, 32, 40, 51, 300L, L-10)



REFLEX GLASS

Reliable, accurate bi-color liquid level indication of fluid / gas interface.

Features:

- Low maintenance
- Recessed Gasket Surface
- Shrouded Covers
- Meets ASME/ANSI/NACE Standards

Capabilities:

- Pressures from 300# ANSI to 10,000 psi
- Temperatures from cryogenic to 800F
- Large Volume Chambers Available
- Available with a wide variety of connection configurations
- Custom Engineered Solutions

Applications:

- Low Pressure Steam
- Hydrocarbon Processes
- Offshore Platforms
- Acid Storage
- Water Treatment
- Pulp & Paper

(Series 20, 32, 40, 51, 300L, L-10)

VALVES



ILLUMINATORS



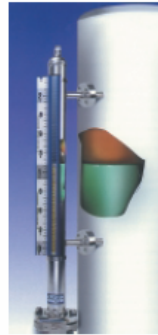
WELD PAD



OFF SHORE



- Non-Frost Extension
- Expansion Coils
- Custom Options



(Magnicator II®)

MAGNETIC LEVEL GAGES

A highly reliable, low maintenance indirect reading level gage that offers control, indication and actuation with a single device.

Features:

- No glass in contact with process
- Reduced fugitive emissions
- Meets ASME/ANSI B31.1/B31.3
- Sch. 40 Chamber Standard Construction

Capabilities:

- Critical Service Applications
- Wide variety of materials available
- Wide variety of mounting configurations and connections

Applications:

- Broad range of clean liquids, steam, flammable or hazardous liquids.

INDICATORS



Hermetically Sealed



Flag



Bi-Color LED



Bob Type



(RS-2)

POINT LEVEL SWITCHES

RS-2 POINT LEVEL SWITCH

Hermetically sealed bi-stable latching reed switch.

Features:

- Continuous 1 Amp @ 130 VDC / VAC
- UL/CUL/CE/ATEX Approved



(SAS-16)

SAS-16 POINT LEVEL SWITCH

Snap Action latching switch for reliable high current device control utilizing the "tri-magnet" design.

Features:

- Highly reliable - No cams, springs, or mercury
- Highly resistant to vibration
- Rated 16 Amps @ 120 VAC
- UL/CUL/CE/ATEX Approved



(RST-2)

TRANSMITTERS

REED SWITCH TRANSMITTER

A low cost loop powered step output transmitter for remote indication from a Mag II gage.

Features:

- Low Cost
- Available with 1/4" or 1/2" resolution
- UL/CUL Approved



(MTII 4200)

MAGNETOSTRICTIVE TRANSMITTER

A loop powered continuous output transmitter for remote indication of a Mag II.

Features:

- HART Protocol Standard
- FM approved (CSA/CE/ATEX available)
- Easy Push Button Calibration

Bouyancy

SIDE MOUNTED FLOAT SWITCHES



(MLS & MRS Series)

The MLS horizontal mounted level switch offers the highly reliable operating principle of repelling magnet forces.

- Features:**
- Compact 1-1/2" NPT Connection
 - Snap Action Switching
 - Integral Conduit Box
 - SPDT or DPDT Switches
 - Low .50 Min. S.G.

EXTERNAL CAGE



(BC & XC Series)

The float operated external cage level switch features the unique tri-magnet design offering anti-vibration snap action without the use of springs, cams, or mercury.

- Features:**
- Tri-Magnet switching
 - 316-SST Trim
 - ANSI B31.1 & B31.3 Design
 - No exposed moving parts
 - NPT enclosure mounting connection

DISPLACER TRANSMITTERS



(DT Series)

Jerguson's Level Transmitter is one of the most advanced available, utilizing the proven buoyancy principle and incorporating state of the art electronics.

- Features:**
- 2 wire 24 VDC loop powered
 - Hart Digital communication
 - Simple local or remote calibration
 - Operational flashing LED
 - LVDT Technology

DISPLACER SWITCH



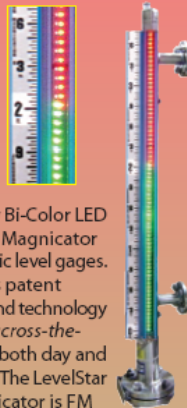
(DC Series)

The displacer operated switches are ideal for sump and other top mounted applications such as high or low level alarms.

- Features:**
- Tri-Magnet switching
 - 316-SST Trim
 - ANSI B31.1 & B31.4 Design
 - No exposed moving parts
 - NPT enclosure mounting connection

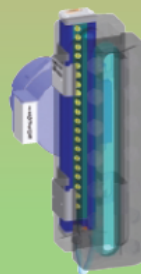
NEW

LEVELSTAR



LevelStar - a new Bi-Color LED Indicator for the Magnicator II® line of magnetic level gages. LevelStar utilizes patent pending design and technology to deliver *clear-across-the-plant* visibility in both day and night conditions. The LevelStar Bi-Color LED Indicator is FM approved for use in hazardous locations.

- Features:**
- High Contrast
 - Superior Visibility Day or Night
 - Increased Reliability
 - Long Life (over 10 years)
 - No Mechanical/Rotating Parts
 - Field Upgradable
 - Customized Color Options
 - Longest Field-of-View Available



Water



Oil (80W90)

EPL-100

The EPL-100, a high-intensity, maintenance-free LED illuminator for all transparent and level gages, new or existing, FM approved.

- Features:**
- High Contrast
 - Superior Visibility Day or Night
 - Maintenance FREE
 - Long Life (over 10 years)
 - No Heat Generation
 - Field Upgradable
 - Fits any glass gage
 - Eliminates "bulb-changes"
 - Longest Field-of-View
 - Covers up to 4 Size 9 Gage Sections
 - Explosion-Proof Power Supply, Intrinsically Safe Lighting Circuit
 - Pays for itself in electricity savings alone!

Capacitance

SINGLE-POINT LEVEL SWITCHES



(200 Series)

The RF Capacitance level switches are designed for point level alarm or control of conductive and non-conductive liquids, granular materials, slurries and interface applications.

- Coating rejection circuitry
- Time delay relay
- Field selectable Hi/Lo failsafe
- Push to test option
- Pump control option

TRANSMITTERS



(300 Series)

The RF Capacitance level transmitter is designed for continuous level measurement in conductive and non-conductive liquids.

- Anti-Coating circuitry
- Isolated 4-20 mA Output
- Direct or reverse acting
- Non-interacting zero span
- Integral or remote mounted electronics

Ultra-Sonic

MS Series



Non-contact ultrasonic level transmitter provides continuous monitoring of linear level utilizing proven Time of Flight technology.

Features:

- 2 Wire 24Vdc loop powered
- Operating ranges up to 36 Ft.
- Measures liquid height, distance to liquid, contents or flow in open channels
- Simple push button calibration
- Built-in LCD display
- Automatic temperature compensation

Magnetostrictive

MAGNETOSTRICTIVE



(MTII-4200
in chamber)



(MTII-4200
Top-Mounted)

Loop Powered Continuous Output Transmitter for direct In-tank Level Applications.

Features:

- HART Protocol Standard
- FM approved (CSA/CE/ATEX available)
- Easy Push Button Calibration
- Variety of Mounting Sizes Available
- No stilling tube or displacement chamber required.
- No scheduled maintenance or recalibration

Capabilities:

- Accuracy of .01% full scale or .015
- Repeatability of .01% full scale or .015*
- Temperatures of -30 to 300F

Applications:

- General Process Control
- Batching Tanks
- Inorganic Chemicals
- Fuels and Solvent
- Industrial Organic Chemicals
- Detergents and Soaps

Tuning Fork

TUNING FORK



(Series 200)

A single point liquid level switch using vibrating Fork wetside, similar to a tuning fork, to detect the presence of a liquid.

Features:

- Externally visible "heart-beat" LED
- 1450 PSIG pressure rating
- 300 Deg.F temp. Rating
- Time delay switching

Agency Approvals



PED



ATEX



Jerguson® designs and develops product specifications consistent with the customer's use for that product, and ensures that all products and services conform to their established quality specifications.